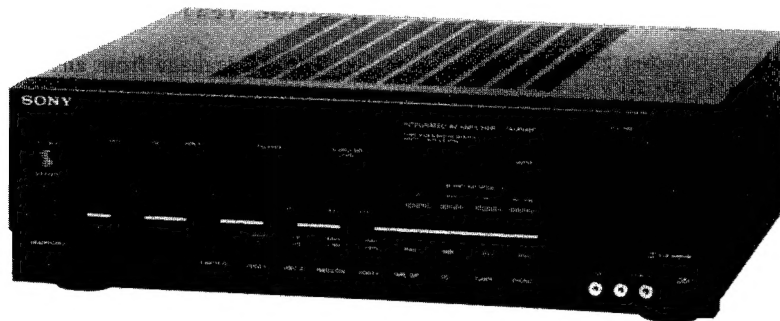


TA-AV480

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



SPECIFICATIONS

US MODEL

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads both channels driven, from 20 — 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.08% total harmonic distortion from 250 milliwatts to rated output.

Other specifications

Amplifier section

Power bandwidth (IHF)

7 Hz — 30 kHz (8 ohm)

Harmonic distortion

Less than 0.08% (at 1 kHz, 8-ohm load, Front
US, Canadian, E MODEL: 120W + 120W, Surround OFF
AEP, UK MODEL: 75W + 75W, Surround OFF)

Intermodulation (IM) distortion (60 Hz : 7 kHz)

Less than 0.08% at rated output

Frequency response

PHONO: RIAA equalization curve ± 0.5 dB
TUNER, CD, GRAPHIC EQ, TAPE, VIDEO 1, 2, 3,
4: 10 Hz to 70 kHz, ± 3 dB

Residual noise

Less than 25 μ V (8 ohms, network A)

Damping factor

50 (8 ohms, 1 kHz)

Video section

Video input/output

Permissible signal input level

1.5 Vp-p

Output signal level

1 + 0.1 Vp-p/with 1 Vp-p input
(measured at MONITOR OUT)

Impedance (output)

75-ohm unbalanced, negative sync

Input

Input jack		Jack type	Sensitivity	Impedance
PHONO	MM	Phono	2.0 mV	50 kilohms
TUNER CD VIDEO 1, 2, 3, 4 (CDV) TAPE		Phono	150 mV	50 kilohms

Output

REC OUT	Phono jacks	Voltage 150 mV Impedance 470 kilohm
SPEAKERS	—	Accepts speakers of 8 — 16 ohms.
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones.
VIDEO 1, 2, MONITOR	S jack	1 Vp-p, 75 Ω

Tone controls

	Response
BASS	± 10 dB (100 Hz)
TREBLE	± 8 dB (10 kHz)

—Continued on page 2—



INTEGRATED STEREO
AV AMPLIFIER
SONY®

General


System	
Power amplifier	All-stage direct-coupled pure complementary SEPP OCL circuit
Surround amplifier	
	Semi complementary SEPP circuit
Preamplifier	NF type tone control
Surround circuit	Operation circuit matrix type
Overall output	Front 120W + 120W (US, Canadian, E) Front 75W + 75W (AEP, UK) Surround 15W + 15W (US, Canadian, E) Surround 12.5W + 12.5W (AEP, UK)
Dolby input sensitivity	500 mV
Power requirements	120V AC (US, Canadian), 220V AC (AEP), 240V AC (UK), 120–220V AC (E)
Power consumption	US model: 200W Canadian: 450VA AEP, UK model: 170W E model: 220W 3 switched outputs for system, 100W
AC Power outlet	
Dimensions	430 x 130 x 325 (W/H/D) (18 x 5 1/8 x 15 inches)
Weight	Approx. 9.2kg (20 lb 5oz) (Canadian, UK) Approx. 9.9kg (21 lb 13oz) (US, E) Approx. 8.5kg (18 lb 12oz) (AEP)
Accessories supplied	Programmable remote commander RM-P102 (1). Sony SUM-3 (NS) batteries (4).

FEATURES**Amplifier Features**

- This amplifier incorporates the power amplifier for the front speakers (US, Canadian, E: 120W + 120W/AEP, UK: 75W + 75W) and that for the surround speakers (US, Canadian, E: 15W + 15W/AEP, UK: 12.5W + 12.5W) independently. These amplifiers make possible a powerful surrounding sound from 4 speakers.
- The versatile input system controls 4 A/V input systems and 4 audio input systems.


Surround Features

This unit incorporates all of three types of surround effect.

-  * — expands sound just like listening to it in a movie theater.
- Hall Surround — provides reverberation effect that is produced in a large concert hall.
- Simulated Surround — gives the feeling of width and thickness to monaural sound of old movies, etc.

Programmable Remote Commander

- The supplied programmable commander is capable of "learning" the remote control signals used with other remote commanders. The single commander can replace them for controlling various audio and video equipment of any manufacturers, thereby frees you from complicated manipulation of several remote commanders.

* "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

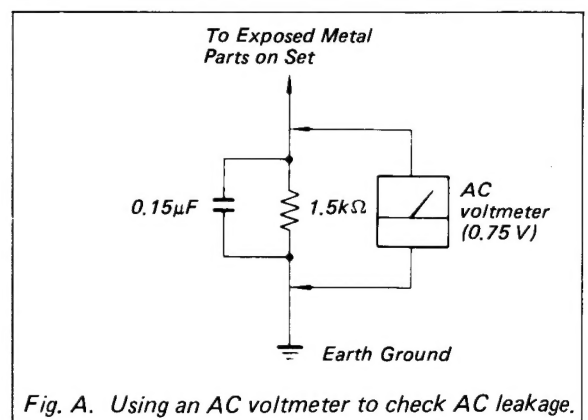





Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

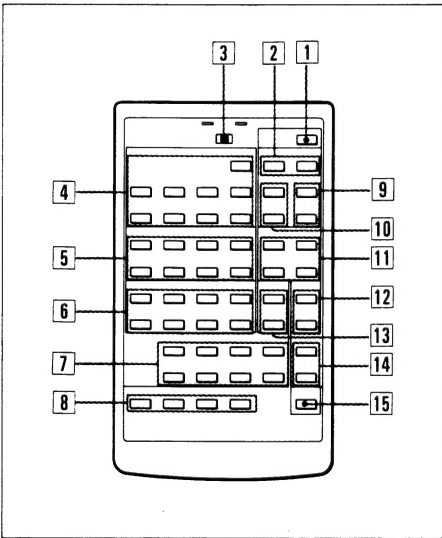
SECTION 2
ADJUSTMENTS

TABLE OF CONTENTS

Section	Title	Page	Section	Title	Page
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Safety Check-out		2	3-4. IC Block Diagram		12
Features		2	3-5. Printed Wiring Boards (Main Section).		13
SECTION 1. GENERAL		3	3-6. Schematic Diagram (Main Section)		17
SECTION 2. ADJUSTMENTS.		4	SECTION 4. EXPLODED VIEW.		23
SECTION 3. DIAGRAMS			SECTION 5. ELECTRICAL PARTS LIST		24
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• Circuit Boards Location		5			
3-2. Printed Wiring Boards (Video Section)		6			

SECTION 1 GENERAL

Parts Identification of the remote commander (RM-P102)



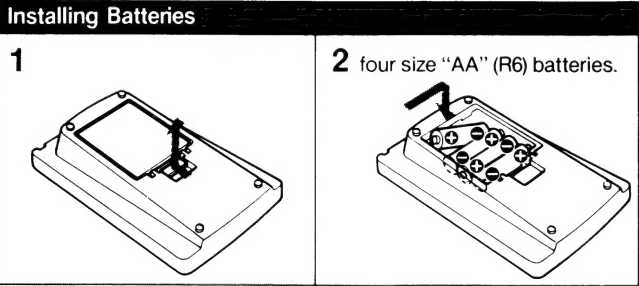
Note on programmable commander
When operating the programmable commander the remote control sensor should be protected from strong light such as direct sunlight and the light of lighting equipment. Otherwise, the remote-control operation could be impossible.

- 4 VTR control buttons
- 5 TAPE (cassette deck) control buttons
- 6 CD player control buttons
- Caution:**
With some CD players from Sony, the shuffle and program operation may not be able to be canceled. In this case, program these functions in the programmable remote commander, or simply press the CONTINUE button on the CD player.
- 7 FUNCTION selectors
- 8 SURROUND selectors
OFF, DOLBY, HALL, SIMULATED
- 9 TV VOL (volume) +/- buttons
- 10 TV CH (channel) +/- buttons
- 11 A, B, C, D control buttons
These buttons have no pre-assigned functions.
- 12 TUNER PRESET CH (channel) +/- buttons
- 13 PHONO START/STOP buttons
- 14 VOL (volume) +/- buttons
- 15 MUTING button

The following functions are available with the mode switch set to SONY STD.

- 1 POWER ON/OFF button
- 2 POWER ON/OFF buttons
VTR: Turns on/off the VCR
TV: Turns on/off the TV set
- 3 Mode selector
SONY STD: To control the operations of the equipment manufactured by Sony.
USER STD: To control the programmed operation if there is any operation programmed under a key, or to control the Sony equipment operation if there is no operation programmed under it.
LEARN: To program the signals of other infrared remote commanders under the keys of the programmable commander.

Note
Pressing the ● and ▷ buttons sets the VCR to the recording mode. For some Sony VCRs, pressing the ● button sets the VCR to recording pause mode. At that time, press the || button to set to the recording mode.



Notes on batteries
Battery life
About a half year of normal operation can be expected when using the Sony SUM-3 (NS) batteries.
When the batteries are exhausted, the remote commander cannot operate the unit or programming is not possible. If this happens, replace four batteries with new ones.

To avoid battery leakage
When the commander is not to be used for a long time, remove the batteries to avoid damage caused by battery leakage and corrosion.

After removing of POWER TRANSISTOR, check the following transistors to prevent from another damaging of POWER TRANSISTOR replaced.

Q501, 503 ~ 507, 509 ~ 512,
Q601, 603 ~ 607, 609 ~ 612.

Note: When POWER TRANSISTOR or the transistors above are replaced, perform this adjustment.

DC BIAS Adjustment

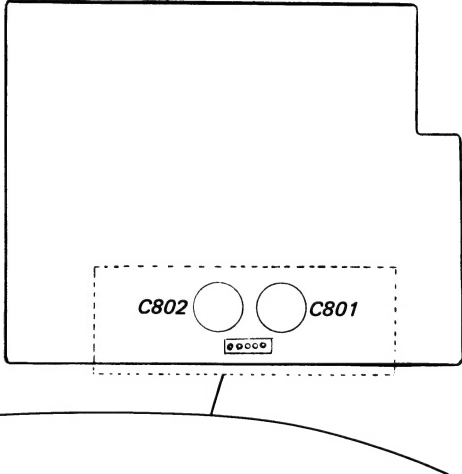
Setting:
With no signal input (without DUMMY LOAD)
VOLUME control: minimum

Procedure:

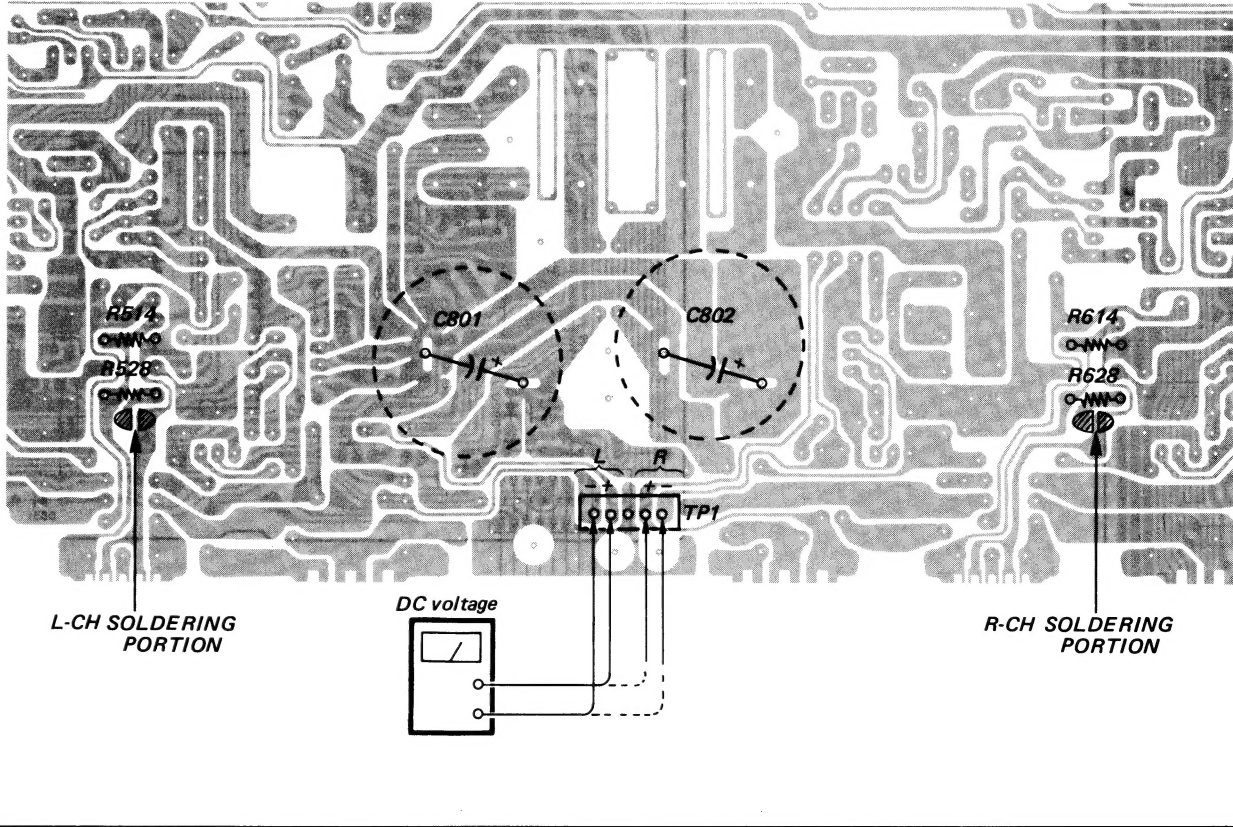
- 1. Connect the DC millivoltmeter to TP1.
- 2. Turn on the power of the set and wait for a few minutes for warm-up.

Adjustment point	Reading on DC millivoltmeter	
TP1	less than 5mV	normal (no adjustment)
TP1	more than 5mV	Re-solder the soldering portion: R528, R628 R514, R614 Parallel Parallel

MAIN BOARD
[Component Side]



Adjustment Location: MAIN BOARD



SECTION 2
ADJUSTMENTS

After removing of POWER TRANSISTOR, check the following transistors to prevent from another damaging of POWER TRANSISTOR replaced.

Q501, 503 ~ 507, 509 ~ 512,
Q601, 603 ~ 607, 609 ~ 612.

Note: When POWER TRANSISTOR or the transistors above are replaced, perform this adjustment.

DC BIAS Adjustment

Setting:

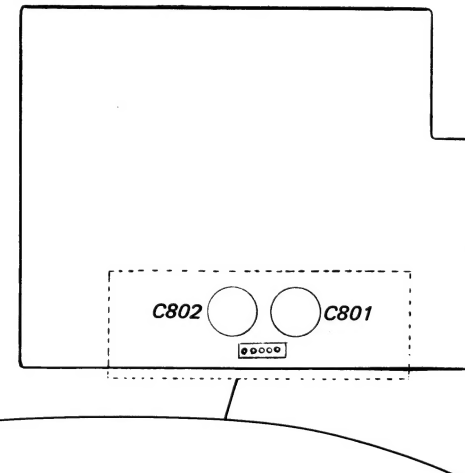
With no signal input (without DUMMY LOAD)
VOLUME control: minimum

Procedure:

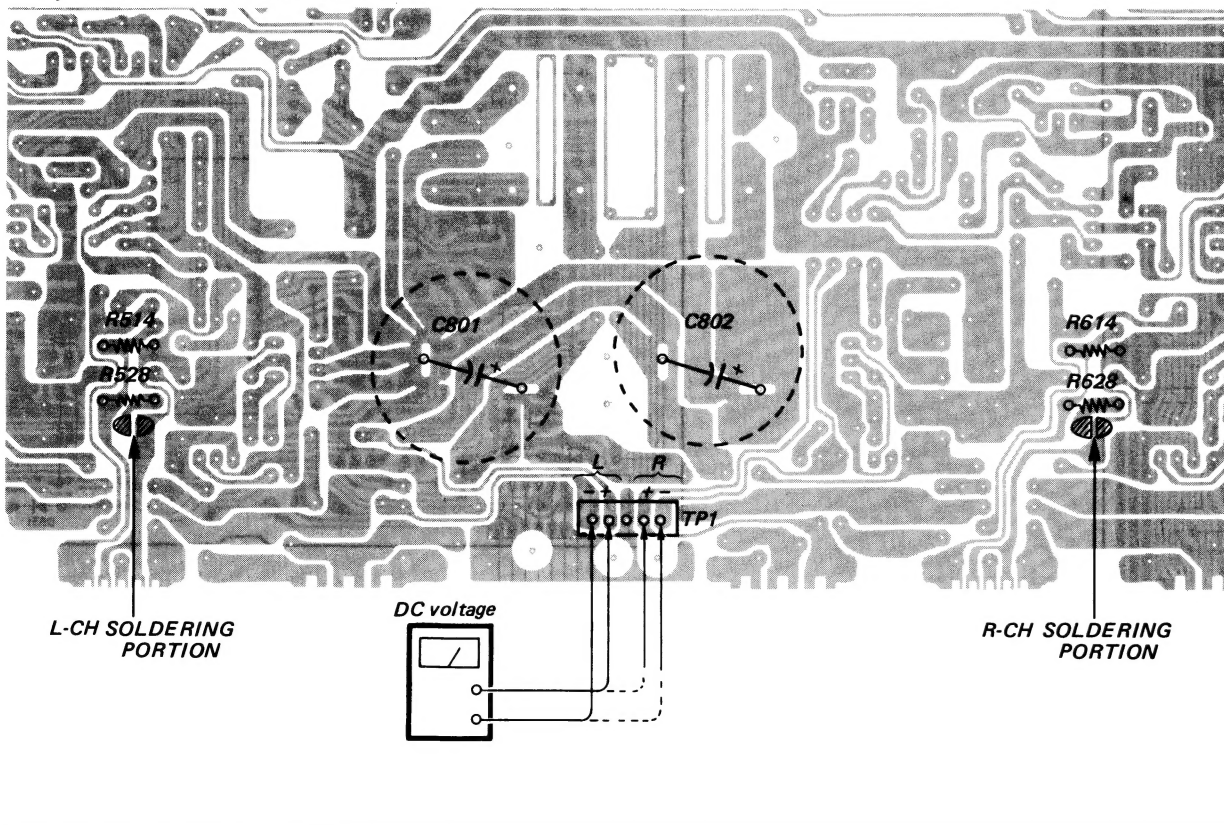
1. Connect the DC millivoltmeter to TP1.
2. Turn on the power of the set and wait for a few minutes for warm-up.

Adjustment point	Reading on DC millivoltmeter	
TP1	less than 5mV	normal (no adjustment)
TP1	more than 5mV	Re-solder the soldering portion: R528, R628 R514, R614 Parallel Parallel

MAIN BOARD
[Component Side]



Adjustment Location: MAIN BOARD

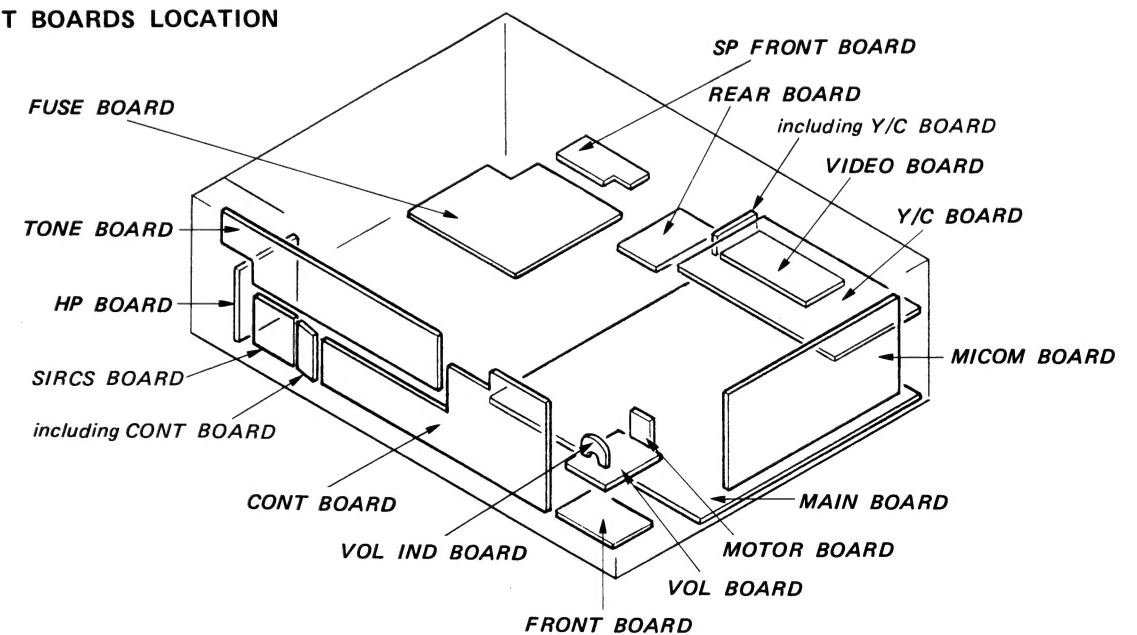


SECTION 3 DIAGRAMS

3-1. SEMICONDUCTOR LEAD LAYOUTS

MN-3007 MN-3101 	M50720-401SP 	M5F7909 	DTA114ES DTA124ES DTC114ES DTC124ES 2SD1387 	RBV-402-01 	SEL2210S SEL2910A
M4066BP 	M5218L μPC1237HA 	2SB1014 	2SA985A 2SA1383 2SC2275A 2SC3514 	US1060M US1090M UZL-6L2 10E2N 	SEL2510C
NE646N TC4052BP 	M5F7809 	2SC1847 2SC3622A 2SD1388 	2SA979 	D300 	SEL4925A-C
LC7822 	STK-4026 	2SA988 	2SA1175 2SC2785 	S1VB10 	

● CIRCUIT BOARDS LOCATION



3-2. PRINTED WIRING BOARDS

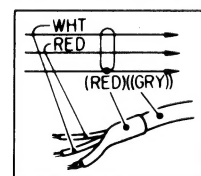
- Video Section -

● Semiconductor Location (Control)

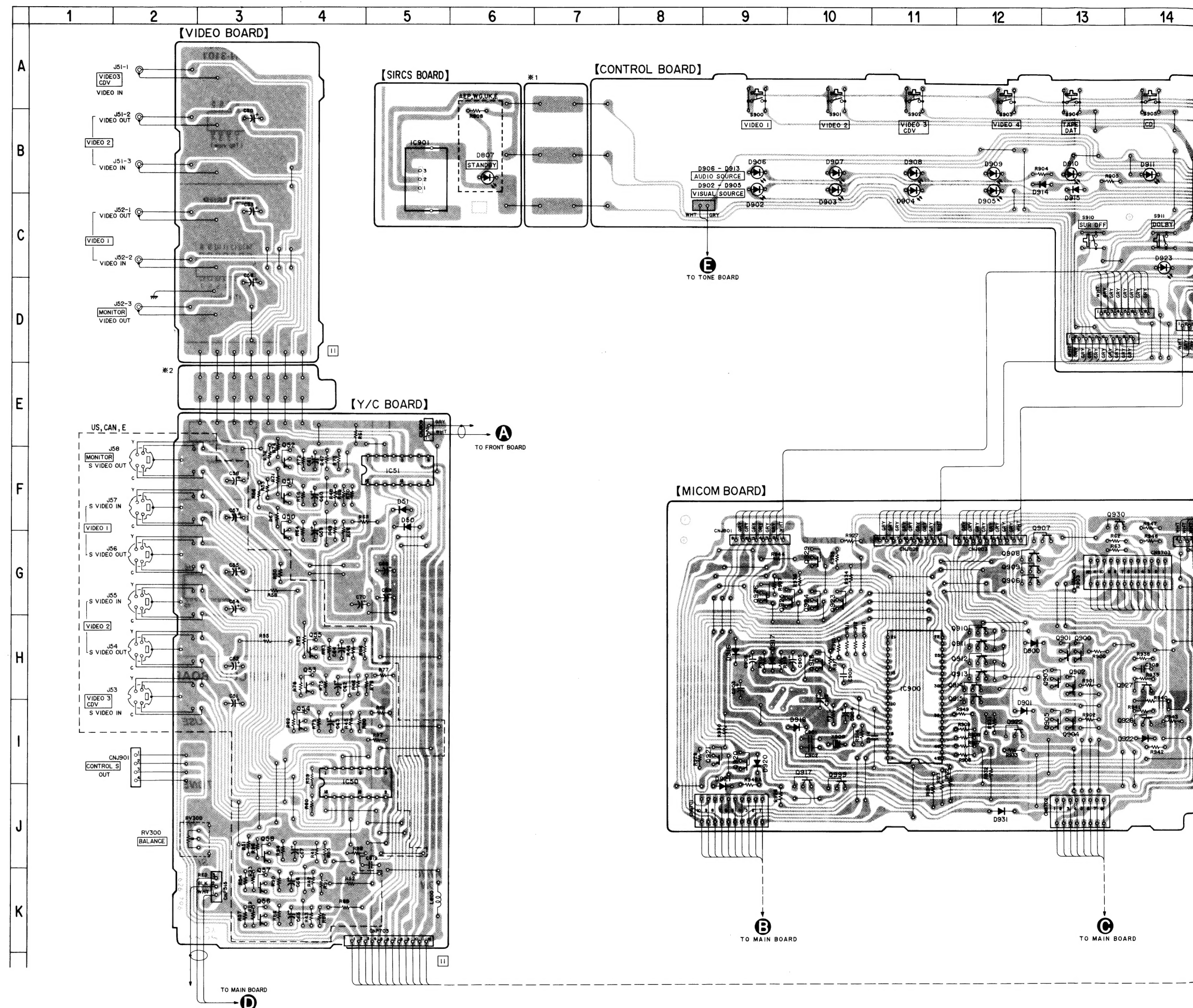
Ref. No.	Location	Ref. No.	Location
D50	F-5	Q52	F-4
D51	F-5	Q53	H-4
D807	B-6	Q54	I-4
D900	H-12	Q55	H-4
D901	I-12	Q56	K-3
D902	C-9	Q57	K-3
D903	C-10	Q58	J-3
D904	C-11	Q900	H-13
D905	C-12	Q901	H-13
D906	B-9	Q902	H-13
D907	B-10	Q903	H-13
D908	B-11	Q904	I-13
D909	B-12	Q905	I-13
D910	B-13	Q906	G-12
D911	B-14	Q907	F-12
D912	B-15	Q908	G-12
D913	B-16	Q909	G-12
D914	B-13	Q910	H-12
D915	C-13	Q911	H-12
D916	H-9	Q912	H-12
D917	H-9	Q913	H-12
D918	I-10	Q914	H-12
D919	D-15	Q915	H-12
D920	I-9	Q916	H-10
D921	I-9	Q917	I-10
D922	I-14	Q920	I-9
D923	C-14	Q921	I-9
D924	C-15	Q922	I-12
D925	C-16	Q923	G-10
D931	J-12	Q924	G-10
—	—	Q925	G-9
IC50	I-4	Q926	G-9
IC51	F-5	Q927	H-14
IC900	H-11	Q928	I-14
IC901	B-5	Q929	G-10
—	—	Q930	F-13
Q50	F-4	Q999	I-10
Q51	F-4		

Note:

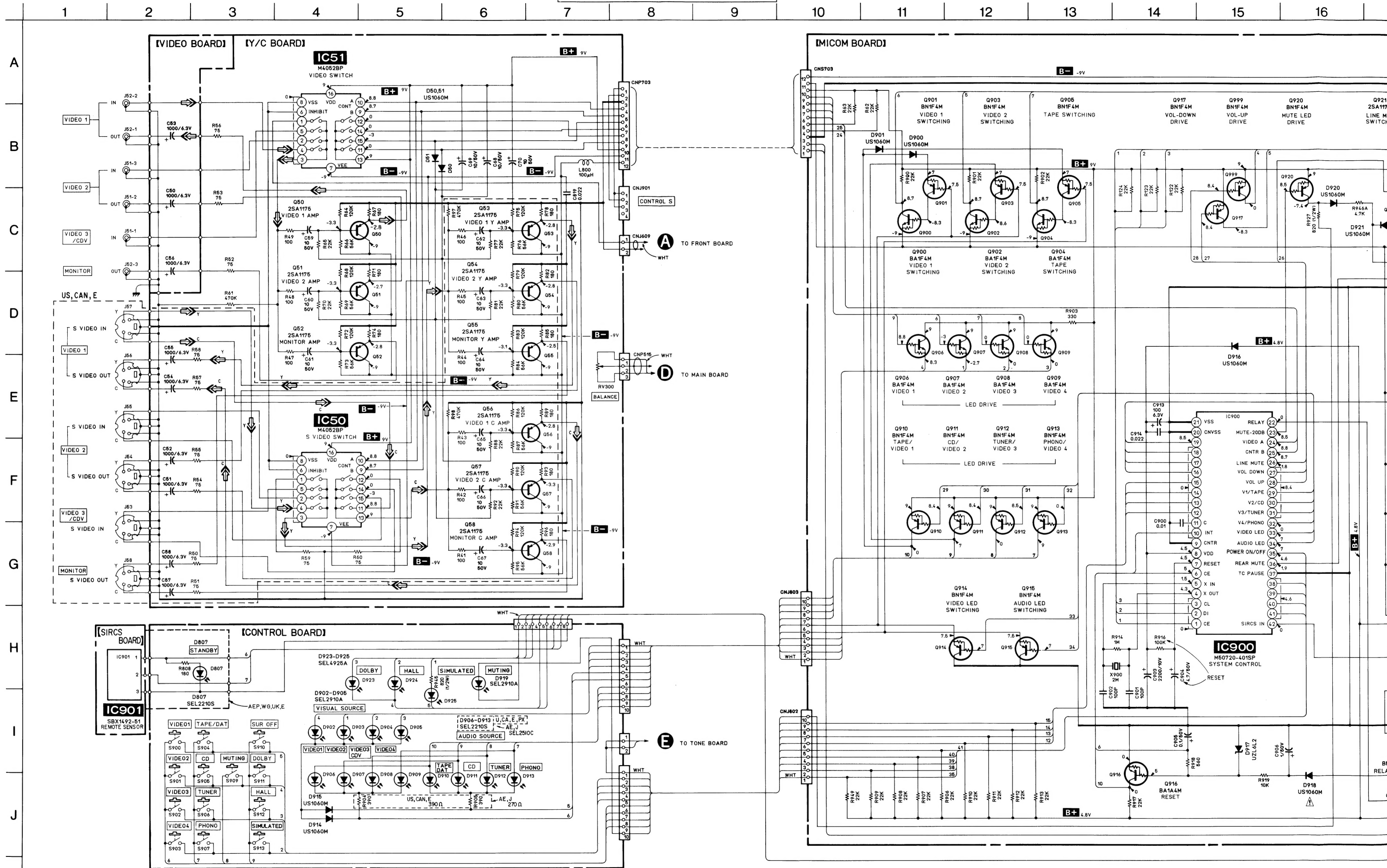
- Color code or sleeving over the end of the jacket.

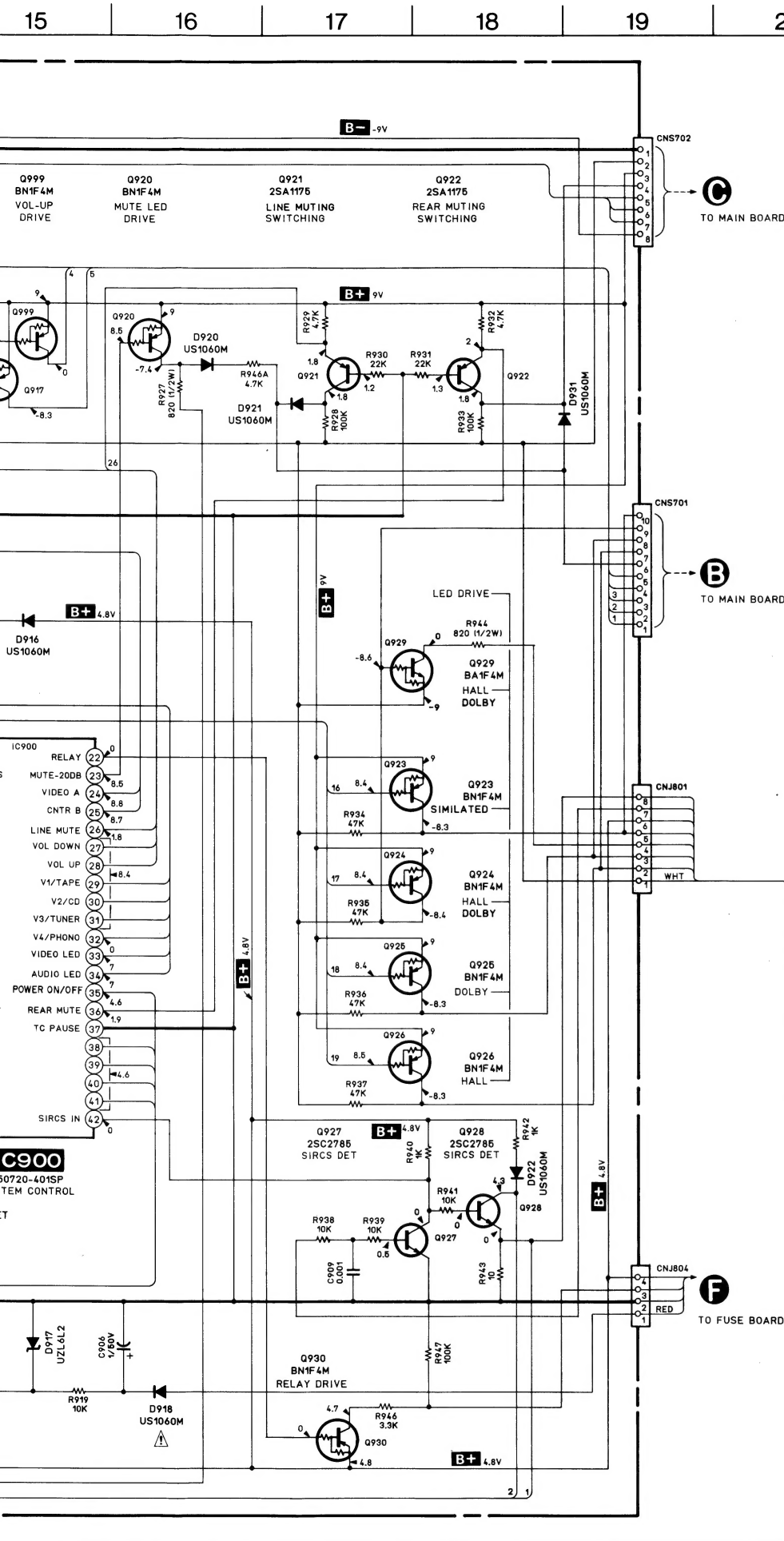


- : parts extracted from the component side.
- : parts extracted from the conductor side.
- CAN: Canadian
- WG: West Germany
- *1 Including CONTROL BOARD
- *2 Including Y/C BOARD









**Note:**

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
➡ : VIDEO SIGNAL
- Switches:


Ref. No.	Switch	Position
S900	VIDEO 1	OFF
S901	VIDEO 2	OFF
S902	VIDEO 3	OFF
S903	VIDEO 4	OFF
S904	TAPE/DAT	OFF
S905	CD	OFF
S906	TUNER	OFF
S907	PHONO	OFF
S908	SYSTEM POWER	OFF
S909	MUTING	OFF
S910	SUR OFF	OFF
S911	DOLBY	OFF
S912	HALL	OFF
S913	SIMULATE	OFF

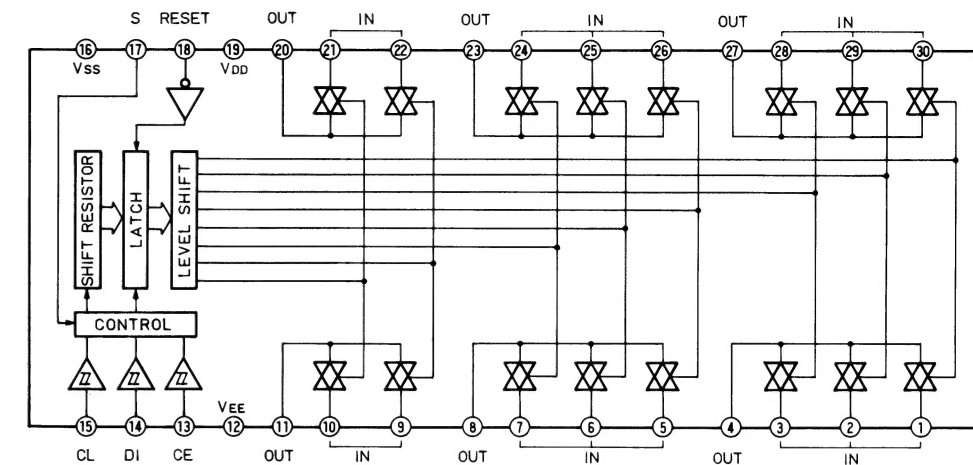
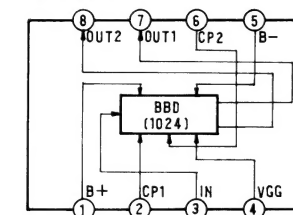
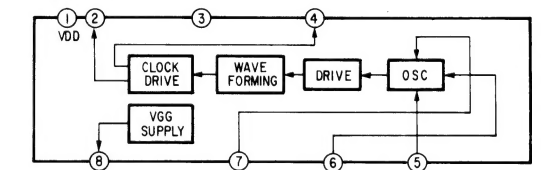
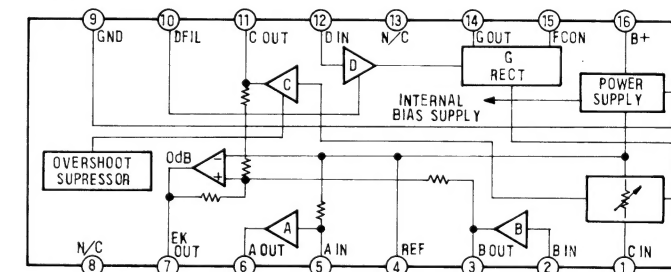
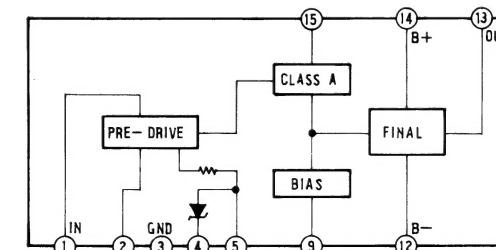
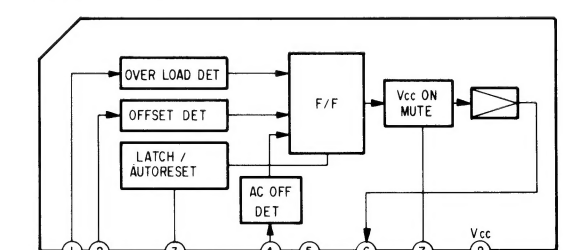
- CAN: Canadian
- WG: West Germany

Note:

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3-4. IC BLOCK DIAGRAM**IC101
LC7822****IC452
MN3007****IC453
MN3101****IC455
NE646N****IC700
STK4026****IC701
 $\mu\text{PC1237HA}$** 

3-5. PRINTED WIRING BOARDS

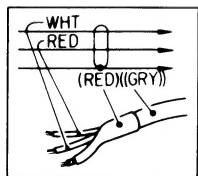
— Main Section —

● Semiconductor Location (Main)

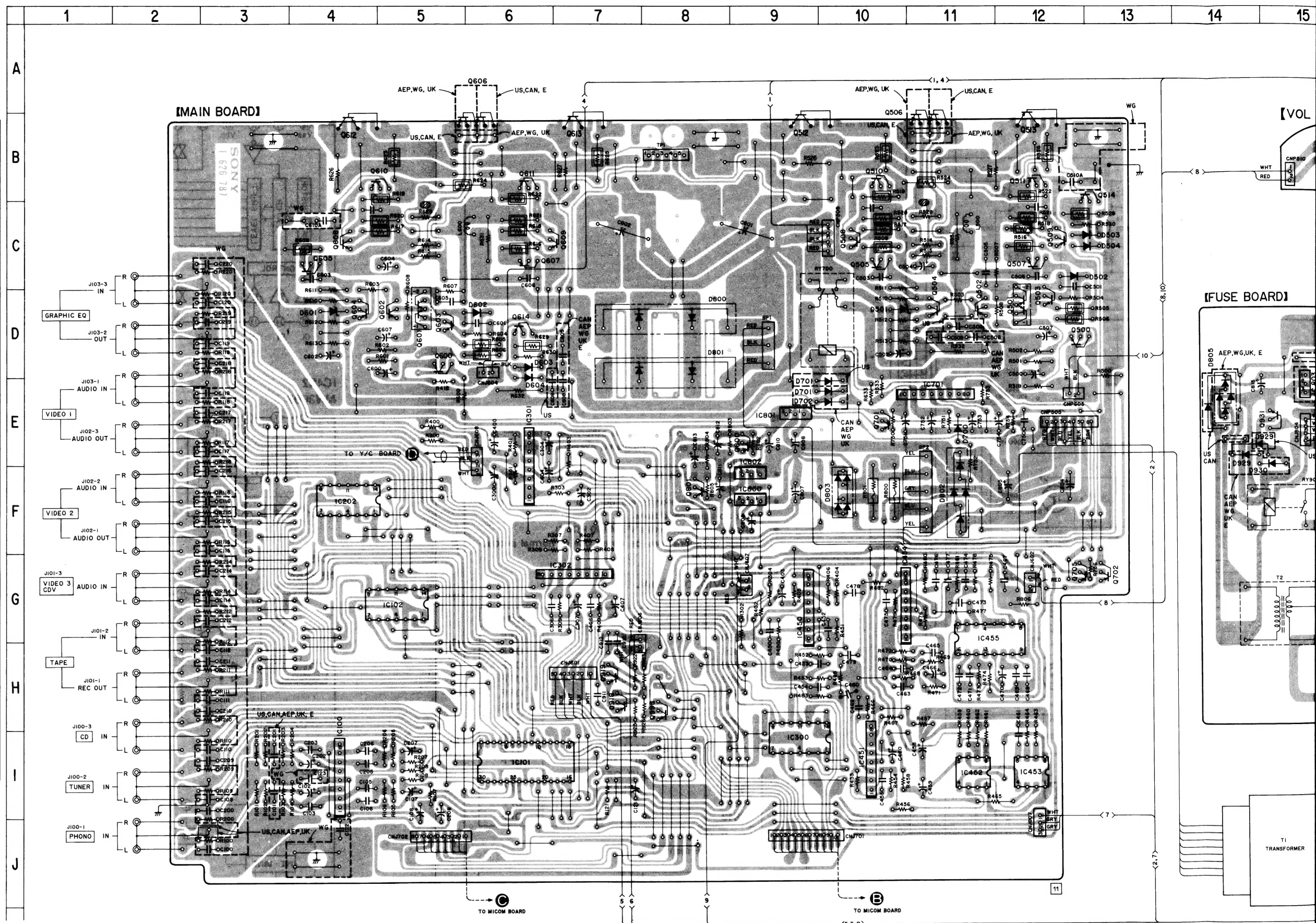
Ref. No.	Location	Ref. No.	Location
D502	C-13	Q500	D-12
D503	C-13	Q501	D-12
D504	C-13	Q502	D-12
D601	D-4	Q503	D-12
D602	D-6	Q504	D-11
D603	E-7	Q505	C-10
D604	E-6	Q506	B-11
D700	E-11	Q507	C-12
D701	E-10	Q508	C-10
D702	E-10	Q509	C-12
D703	G-25	Q510	B-10
D704	H-26	Q511	C-12
D729	E-15	Q512	B-12
D800	D-9	Q513	B-12
D801	D-9	Q514	B-13
D802	F-11	Q600	D-5
D803	F-10	Q601	D-5
D804	B-16	Q602	D-5
D805	E-14	Q603	D-5
D806	E-16	Q604	D-4
D929	E-15	Q605	C-4
D930	F-15	Q606	A-6
—	—	Q607	C-7
IC100	I-4	Q608	C-4
IC101	I-6	Q609	C-7
IC102	G-5	Q610	B-5
IC202	F-4	Q611	B-6
IC300	I-9	Q612	B-4
IC301	E-6	Q613	B-4
IC302	G-7	Q614	D-6
IC303	C-26	Q700	G-26
IC450	G-9	Q701	E-10
IC451	I-10	Q702	G-13
IC452	I-11	Q703	H-26
IC453	I-12	Q704	H-25
IC454	G-10	Q705	G-13
IC455	G-11	Q800	E-9
IC700	G-25	Q801	F-8
IC701	E-11	Q802	E-16
IC800	F-9	Q918	H-7
IC801	E-9	Q919	H-7
IC802	F-9	Q931	E-15
IC803	E-15	Q998	H-8

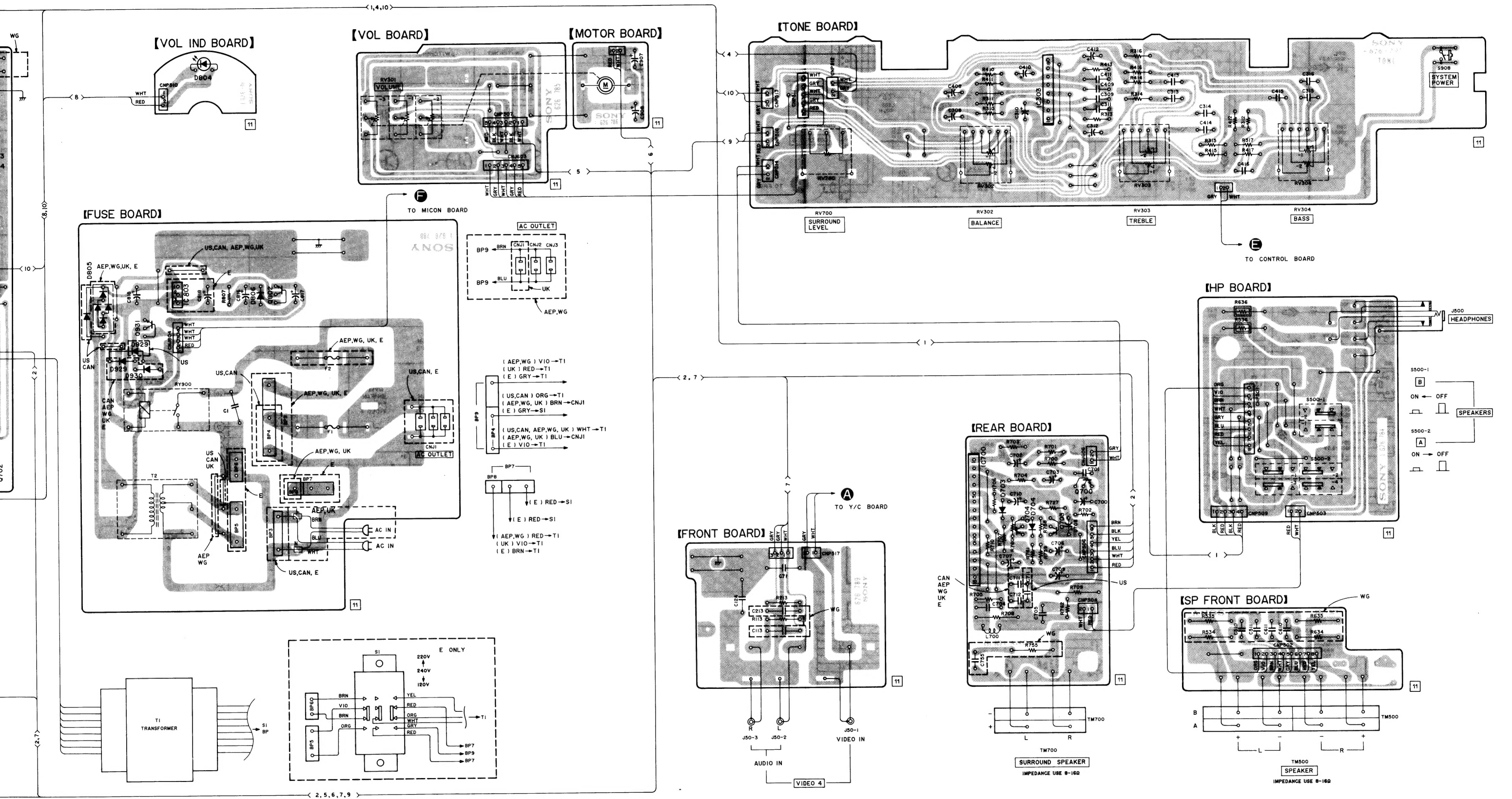
Note:

- Color code or sleeving over the end of the jacket.



- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- CAN: Canadian
- WG: West Germany

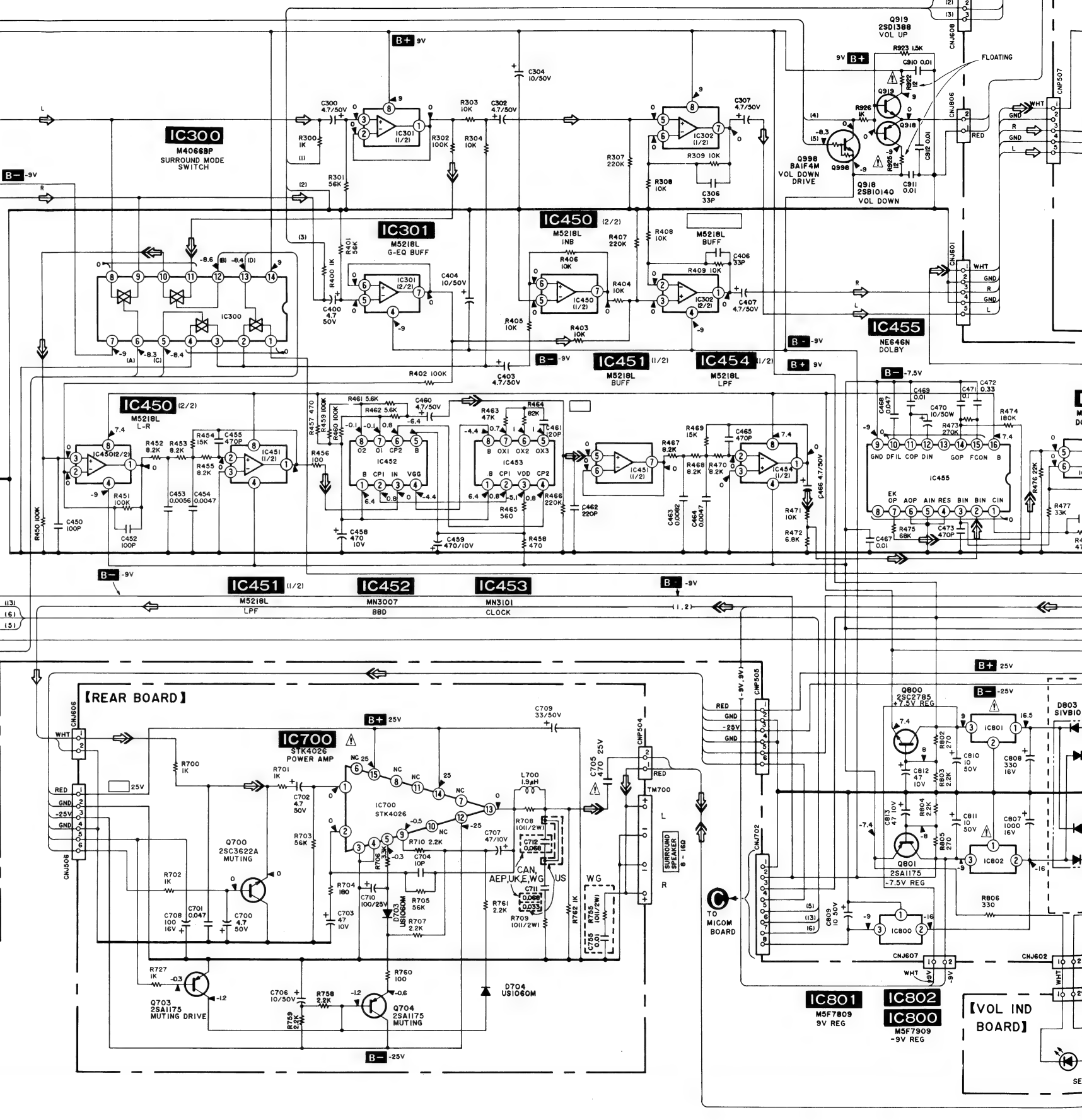
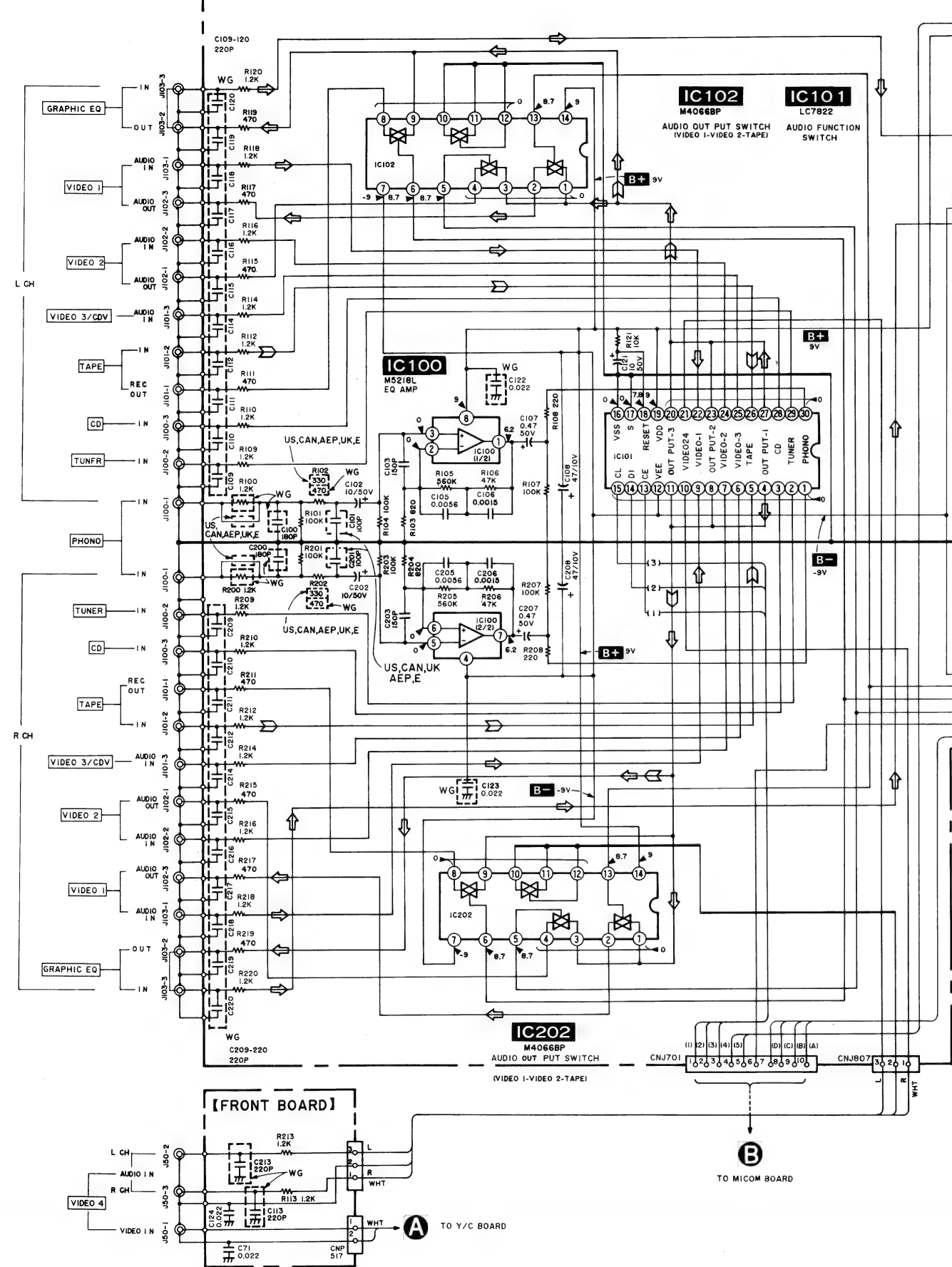


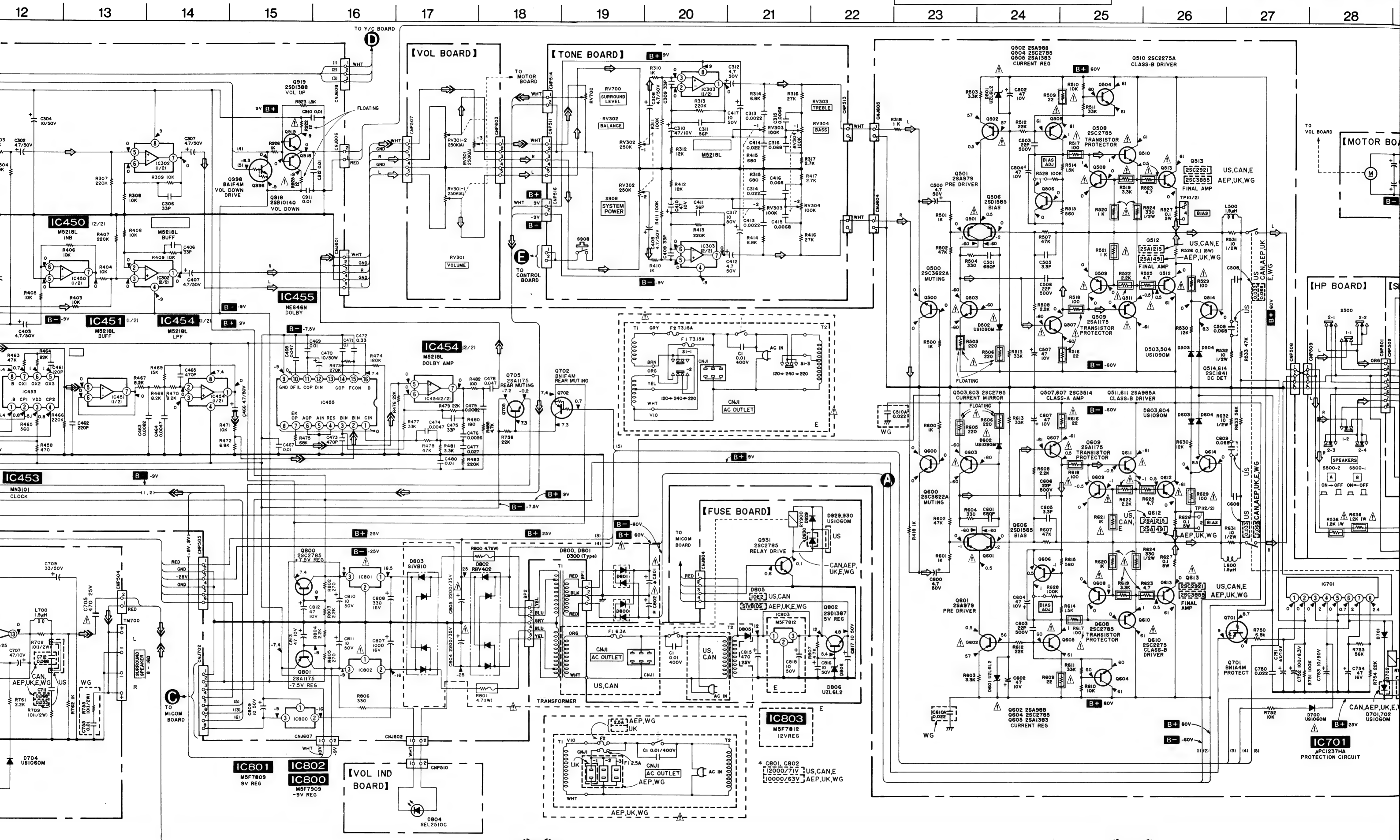


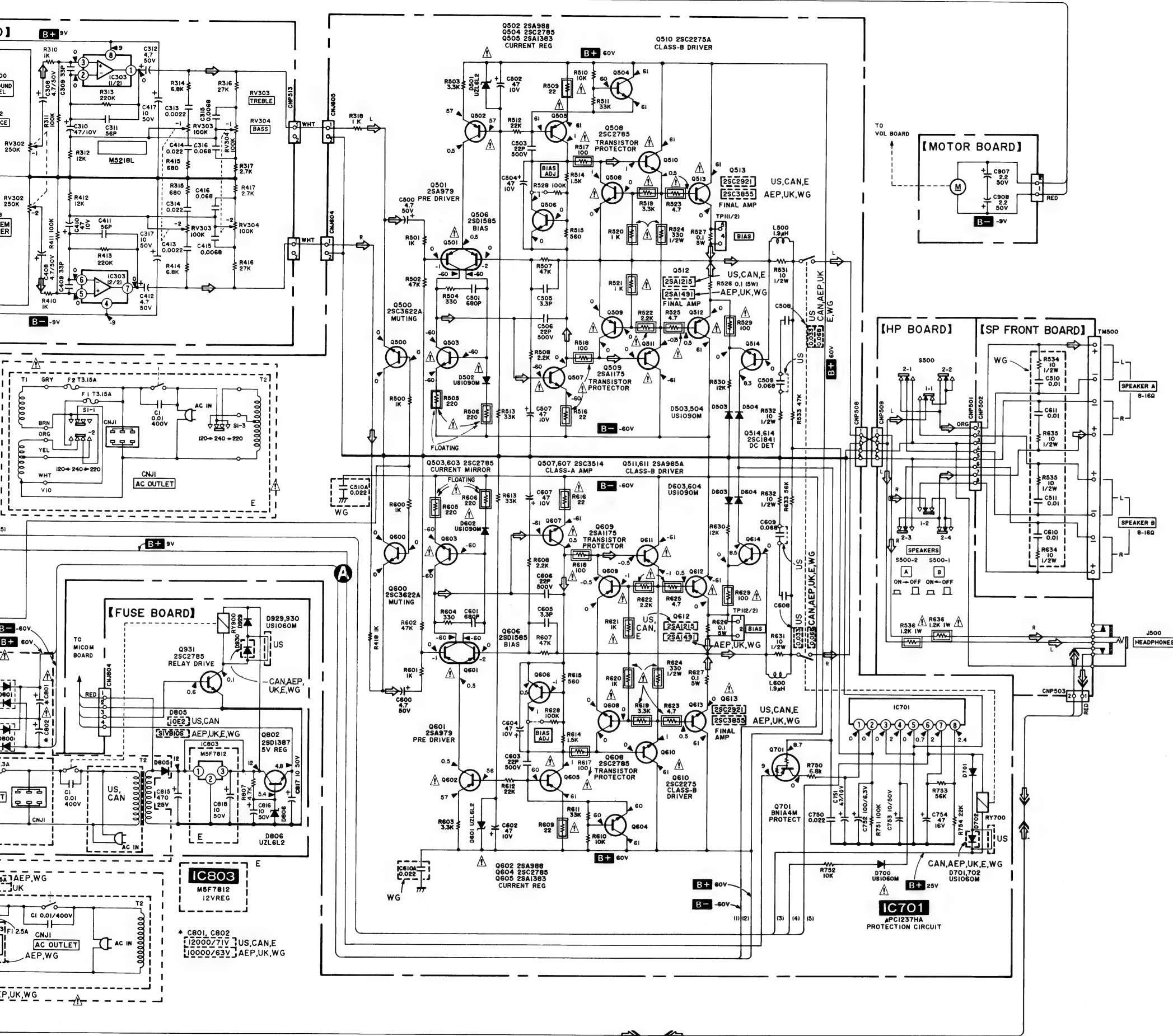
3-6. SCHEMATIC DIAGRAM

-Main Section-




[MAIN BOARD]










Note:

- All capacitors are in μF unless otherwise noted, pF: μpF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
-  : nonflammable resistor.
-  : fusible resistor.
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 k Ω /V).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - ➡ : VIDEO SOUND signal path.
 - ➡➡ : SURROUND signal path.
 - Σ : AUDIO TAPE P \rightarrow B signal path.

Ref. No.	Switch	Position
S1	VOLTAGE SELECTOR	240V
S500-1	SPEAKERS B	OFF
S500-2	SPEAKERS A	ON
S908	SYSTEM POWER	OFF

- CAN: Canadian
- WG: West Germany

Note:
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.



Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.


SECTION 4
EXPLODED VIEWS

NOTE:

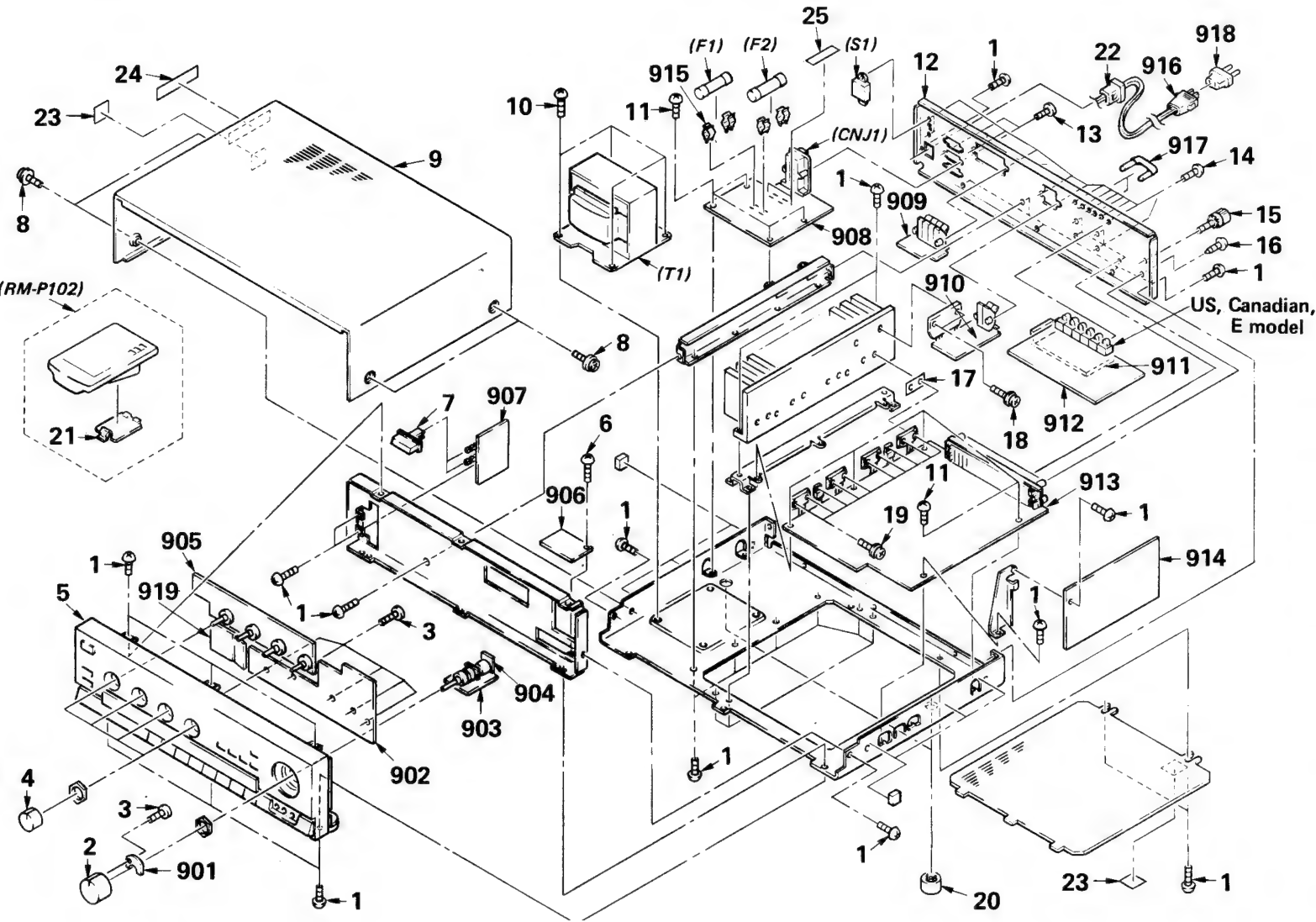
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

1. GENERAL



SECTION 5
ELECTRICAL PARTS

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

- CAPACITORS:
MF: μ F, PF: μ F.
- RESISTORS
• All resistors are in ohms
• F: nonflammable
- COILS
• MMH: mH, UH: μ H
- SEMICONDUCTORS
In each case, U: μ , for
UA: μ A..., UPA: μ A...,
UPC: μ PC, UPD: μ PD...

No.	Part No.	Description	Remarks
1	7-682-548-04	SCREW +BVTT 3X8 (S)	
2	4-925-121-01	KNOB (V2)	
3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
4	4-916-746-01	KNOB (DIA.21)	
5	X-4904-488-1	PANEL ASSY, FRONT	
6	7-682-147-01	SCREW +BVTT 3X6 (S)	
7	4-924-901-01	BUTTON (M)	
8	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-925-039-11	CASE	
10	7-682-560-04	SCREW +BVTT 4X6 (S)	
11	7-682-548-04	SCREW, TOTSU PTTWH 3X8	
12	*4-921-343-11	(Canadian)...PANEL, BACK	
	*4-921-343-21	(AEP)...PANEL, BACK	
	*4-921-343-41	(WG)...PANEL, BACK	
	*4-921-343-51	(UK)...PANEL, BACK	
	*4-921-343-61	(E)...PANEL, BACK	
13	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
14	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
15	*3-706-165-00	SCREW	
16	4-909-982-01	SCREW, TAPPING	
17	4-885-901-31	(US,Canadian,E)...SHEET, RADIATION	
	4-911-232-01	(AEP,UK,WG)...SHEET, INSULATING	
18	7-682-550-04	SCREW (M3X12), TAPPING	
19	4-925-027-11	SCREW (M3X16), TAPPING	
20	X-4864-303-0	FOOT ASSY	
21	4-922-048-01	COVER, BATTERY	
22	3-703-244-02	(US,Canadian,AEP,UK,WG) ...BUSHING (2104), CORD	
	3-703-571-11	(E)...BUSHING (S) (4516), CORD	
23	3-703-680-02	(US)...LABEL, CAUTION, SUB, NEW UL	
24	4-915-702-01	LABEL, CAUTION, DOLBY SURROUND	
25	3-701-947-16	(E,UK)...LABEL, FUSE	
	3-701-948-01	(AEP,WG)...LABEL, FUSE	
901	*1-626-790-11	PC BOARD, VOL IND	
902	*1-626-792-11	PC BOARD, CONT	
903	*1-626-785-11	PC BOARD, VOL	
904	*1-626-786-11	PC BOARD, MOTOR	
905	*1-626-791-11	PC BOARD, TONE	
906	*1-626-789-11	PC BOARD, FRONT	
907	*1-626-784-11	PC BOARD, HP	
908	*1-626-788-11	PC BOARD, FUSE	
909	*1-626-783-11	PC BOARD, SP FRONT	
910	*1-626-782-11	PC BOARD, REAR (B)	
911	*1-626-793-11	PC BOARD, VIDEO	
912	*A-4410-819-A	(US,Canadian)...MOUNTED PCB, Y/C	
913	*A-4388-752-A	(US)...MOUNTED PCB, MAIN	
	*A-4388-753-A	(Canadian,E)...MOUNTED PCB, MAIN	
	*A-4388-754-A	(WG)...MOUNTED PCB, MAIN	
	*A-4388-759-A	(AEP,UK)...MOUNTED PCB, MAIN	
914	*A-4410-780-A	MOUNTED PCB, MICOM	
915	*1-533-183-11	(AEP,UK,E,WG)...HOLDER, FUSE	
916	*1-551-188-XX	(E)...CORD, POWER	
	*1-558-944-11	(AEP,WG)...CORD, POWER	
	*1-558-946-11	(UK)...CORD, POWER	
	*1-559-819-11	(US,Canadian)...CORD, POWER	
917	*1-535-706-11	PLUG, JUMPER	
918	*1-526-565-00	AC PLUG ADAPTOR	
919	*1-626-795-11	PC BOARD, SIRCS	
CNJ1	*1-526-794-11	(AEP,WG)...OUTLET, AC	
CNJ1	*1-526-751-11	(UK)...OUTLET, AC	
CNJ1	*1-540-012-11	(US,Canadian,E)...OUTLET, AC	
F1	*1-532-237-00	(AEP,UK,E,WG)...FUSE, TIME-LAG (3.15A)	
F1	*1-532-748-00	(US,Canadian)...FUSE (6.3A)	
F2	*1-532-237-00	(E)...FUSE, TIME-LAG (3.15A)	
F2	*1-532-286-00	(AEP,UK,WG)...FUSE, TIME-LAG (2.15A)	
S1	*1-571-515-11	(E)...VOLTAGE SELECTOR	
T1	*1-449-265-11	(US,Canadian)...TRANSFORMER, POWER	
T1	*1-449-300-11	(AEP,UK,WG)...TRANSFORMER, POWER	
T1	*1-449-301-11	(E)...TRANSFORMER, POWER	

Ref.No.	Part No.	Description	Ref.No.
901	*1-626-790-11	PC BOARD, VOL IND	C56
902	*1-626-792-11	PC BOARD, CONT	C57
903	*1-626-785-11	PC BOARD, VOL	C58
904	*1-626-786-11	PC BOARD, MOTOR	C59
905	*1-626-791-11	PC BOARD, TONE	C60
906	*1-626-789-11	PC BOARD, FRONT	C61
907	*1-626-784-11	PC BOARD, HP	C62
908	*1-626-788-11	PC BOARD, FUSE	C63
909	*1-626-783-11	PC BOARD, SP FRONT	C64
910	*1-626-782-11	PC BOARD, REAR (B)	C65
911	*1-626-793-11	PC BOARD, VIDEO	C66
912	*A-4410-819-A	(US,Canadian)...MOUNTED PCB, Y/C	C67
913	*A-4388-752-A	(US)...MOUNTED PCB, MAIN	C68
	*A-4388-753-A	(Canadian,E)...MOUNTED PCB, MAIN	C69
	*A-4388-754-A	(WG)...MOUNTED PCB, MAIN	C70
	*A-4388-759-A	(AEP,UK)...MOUNTED PCB, MAIN	
914	*A-4410-780-A	MOUNTED PCB, MICOM	C71
915	*1-533-183-11	(AEP,UK,E,WG)...HOLDER, FUSE	C100
916	*1-551-188-XX	(E)...CORD, POWER	C101
	*1-558-944-11	(AEP,WG)...CORD, POWER	
	*1-558-946-11	(UK)...CORD, POWER	C102
	*1-559-819-11	(US,Canadian)...CORD, POWER	C103
917	*1-535-706-11	PLUG, JUMPER	C105
918	*1-526-565-00	AC PLUG ADAPTOR	
919	*1-626-795-11	PC BOARD, SIRCS	C106
BP1	*1-535-116-00	TERMINAL 3P	C107
BP2	*1-535-118-00	TERMINAL 5P	C108
BP3	*1-535-139-00	(US,Canadian,E)...BASE POST 22MM (10MM PITCH) 2P	C109
BP4	*1-535-139-00	(US,Canadian)...TERMINAL 2P	C110
BP5	*1-535-139-00	(E)...TERMINAL 2P	C111
BP6	*1-535-115-00	(E)...TERMINAL 2P	C112
BP7	*1-535-116-00	(E)...TERMINAL 3P	C113
BP8	*1-535-114-00	(AEP,UK,WG)...TERMINAL 3P	C114
BP9	*1-535-140-00	(AEP,UK,E,WG)...BASE POST 22MM (10MM PITCH) 3P	C115
			C116
			C117
C1	*1-161-744-00	CERAMIC 0.01MF 400V	
C50	1-124-471-00	ELECT 1000MF 20% 6.3V	C118
C51	1-124-471-00	(US,Canadian,E) ...ELECT 1000MF 20% 6.3V	C119
			C120
C52	1-124-471-00	(US,Canadian,E) ...ELECT 1000MF 20% 6.3V	C121
C53	1-124-471-00	ELECT 1000MF 20% 6.3V	C122
C54	1-124-471-00	(US,Canadian,E) ...ELECT 1000MF 20% 6.3V	C124
C55	1-124-471-00	(US,Canadian,E) ...ELECT 1000MF 20% 6.3V	C200
			C201

SECTION 5

ELECTRICAL PARTS LIST

placements in the parts
in the parts specified in
on the set.

not stocked since they
routine service. Some
ed when ordering these

same circuits in a set
machine, only typical
ated and capacitors and
rcuits may be omitted.

CAPACITORS:
MF: μ F, PF: μ F.

RESISTORS
• All resistors are in ohms.
• F: nonflammable

COILS
• MMH: mH, UH: μ H

SEMICONDUCTORS
In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by
mark Δ or dotted line with mark
 Δ are critical for safety.
Replace only with part number
specified.

Les composants identifiés par une
marque Δ sont critiques pour la
sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

DESCRIPTION

BOARD, VOL IND

BOARD, CONT

BOARD, VOL

BOARD, MOTOR

BOARD, TONE

BOARD, FRONT

BOARD, HP

BOARD, FUSE

BOARD, SP FRONT

BOARD, REAR (B)

BOARD, VIDEO

(Canadian)...MOUNTED PCB, Y/C

.....MOUNTED PCB, MAIN

(Canadian,E)...MOUNTED PCB, MAIN

.....MOUNTED PCB, MAIN

(P,UK)...MOUNTED PCB, MAIN

.....MOUNTED PCB, MICOM

(P,UK,E,WG)...HOLDER, FUSE

.....CORD, POWER

(P,WG)...CORD, POWER

.....CORD, POWER

(Canadian)...CORD, POWER

G, JUMPER

PLUG ADAPTOR

BOARD, STRCS

MINAL 3P

MINAL 5P

(Canadian,E)...BASE POST 22MM

(10MM PITCH) 2P

(Canadian)...TERMINAL 2P

...TERMINAL 2P

...TERMINAL 2P

...TERMINAL 3P

(P,UK,WG)...TERMINAL 3P

(P,UK,E,WG)...BASE POST 22MM

(10MM PITCH) 3P

CERAMIC 0.01MF 400V

CT 1000MF 20% 6.3V

(Canadian,E)

...ELECT 1000MF 20% 6.3V

(Canadian,E)

...ELECT 1000MF 20% 6.3V

(Canadian,E)

...ELECT 1000MF 20% 6.3V

(Canadian,E)

...ELECT 1000MF 20% 6.3V

Ref.No.	Part No.	Description			
C56	1-124-471-00	ELECT 1000MF	20%	6.3V	
C57	1-124-471-00	(US,Canadian,E)			
C58	1-124-471-00	...ELECT 1000MF	20%	6.3V	
		(US,Canadian,E)			
		...ELECT 1000MF	20%	6.3V	
C59	1-123-875-11	ELECT 10MF	20%	50V	
C60	1-123-875-11	ELECT 10MF	20%	50V	
C61	1-123-875-11	ELECT 10MF	20%	50V	
C62	1-123-875-11	(US,Canadian,E)...ELECT	10MF	20%	50V
C63	1-123-875-11	(US,Canadian,E)...ELECT	10MF	20%	50V
C64	1-123-875-11	(US,Canadian,E)...ELECT	10MF	20%	50V
C65	1-123-875-11	(US,Canadian,E)...ELECT	10MF	20%	50V
C66	1-123-875-11	(US,Canadian,E)...ELECT	10MF	20%	50V
C67	1-123-875-11	(US,Canadian,E)...ELECT	10MF	20%	50V
C68	1-123-875-11	ELECT 10MF	20%	50V	
C69	1-123-875-11	ELECT 10MF	20%	50V	
C70	1-123-875-11	ELECT 10MF	20%	50V	
C71	1-161-494-00	CERAMIC 0.022MF	30%	25V	
C100	1-162-285-31	(WG)...CERAMIC 180PF	10%	50V	
C101	1-162-282-31	(US,Canadian,AEP,UK,E)			
		...CERAMIC 100PF	10%	50V	
C102	1-123-875-11	ELECT 10MF	20%	50V	
C103	1-162-284-31	CERAMIC 150PF	10%	50V	
C105	1-130-480-00	MYLAR 0.0056MF	5%	50V	
C106	1-130-473-00	MYLAR 0.0015MF	5%	50V	
C107	1-124-902-00	ELECT 0.47MF	20%	50V	
C108	1-124-446-11	ELECT 47MF	20%	10V	
C109	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C110	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C111	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C112	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C113	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C114	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C115	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C116	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C117	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C118	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C119	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C120	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C121	1-123-875-11	ELECT 10MF	20%	50V	
C122	1-161-494-00	(WG)...CERAMIC 0.022MF		25V	
C123	1-161-494-00	(WG)...CERAMIC 0.022MF		25V	
C124	1-161-494-00	CERAMIC 0.022MF	30%	25V	
C200	1-162-285-31	(WG)...CERAMIC 180PF	10%	50V	
C201	1-162-282-31	(US,Canadian,AEP,UK,E)			
		...CERAMIC 100PF	10%	50V	

Ref.No.	Part No.	Description			
C202	1-123-875-11	ELECT 10MF	20%	50V	
C203	1-162-284-31	CERAMIC 150PF	10%	50V	
C205	1-130-480-00	MYLAR 0.0056MF	5%	50V	
C206	1-130-473-00	MYLAR 0.0015MF	5%	50V	
C207	1-124-902-00	ELECT 0.47MF	20%	50V	
C208	1-124-446-11	ELECT 47MF	20%	10V	
C209	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C210	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C211	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C212	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C213	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C214	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C215	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C216	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C217	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C218	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C219	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C220	1-162-286-31	(WG)...CERAMIC 220PF	10%	50V	
C300	1-124-927-11	ELECT 4.7MF	20%	50V	
C302	1-124-927-11	ELECT 4.7MF	20%	50V	
C304	1-123-875-11	ELECT 10MF	20%	50V	
C306	1-162-211-31	CERAMIC 33PF	5%	50V	
C307	1-124-927-11	ELECT 4.7MF	20%	50V	
C308	1-124-927-11	ELECT 4.7MF	20%	50V	
C309	1-162-211-31	CERAMIC 33PF	5%	50V	
C310	1-124-446-11	ELECT 47MF	20%	10V	
C311	1-162-217-31	CERAMIC 56PF	5%	50V	
C312	1-124-927-11	ELECT 4.7MF	20%	50V	
C313	1-130-475-00	MYLAR 0.0022MF	5%	50V	
C314	1-136-157-00	FILM 0.022MF	5%	50V	
C315	1-130-481-00	MYLAR 0.0068MF	5%	50V	
C316	1-136-163-00	FILM 0.068MF	5%	50V	
C317	1-123-875-11	ELECT 10MF	20%	50V	
C400	1-124-927-11	ELECT 4.7MF	20%	50V	
C403	1-124-927-11	ELECT 4.7MF	20%	50V	
C404	1-123-875-11	ELECT 10MF	20%	50V	
C406	1-162-211-31	CERAMIC 33PF	5%	50V	
C407	1-124-927-11	ELECT 4.7MF	20%	50V	
C408	1-124-927-11	ELECT 4.7MF	20%	50V	
C409	1-162-211-31	CERAMIC 33PF	5%	50V	
C410	1-124-446-11	ELECT 47MF	20%	10V	
C411	1-162-217-31	CERAMIC 56PF	5%	50V	
C412	1-124-927-11	ELECT 4.7MF	20%	50V	
C413	1-130-475-00	MYLAR 0.0022MF	5%	50V	
C414	1-136-157-00	FILM 0.022MF	5%	50V	
C415	1-130-481-00	MYLAR 0.0068MF	5%	50V	
C416	1-136-163-00	FILM 0.068MF	5%	50V	
C417	1-123-875-11	ELECT 10MF	20%	50V	
C450	1-162-282-31	CERAMIC 100PF	10%	50V	
C452	1-162-282-31	CERAMIC 100PF	10%	50V	
C453	1-130-480-00	MYLAR 0.0056MF	5%	50V	
C454	1-130-479-00	MYLAR 0.0047MF	5%	50V	
C455	1-162-290-31	CERAMIC 470PF	10%	50V	
C458	1-124-472-11	ELECT 470MF	20%	10V	
C459	1-124-472-11	ELECT 470MF	20%	10V	
C460	1-124-927-11	ELECT 4.7MF	20%	50V	
C461	1-162-283-31	CERAMIC 120PF	10%	50V	

Ref.No.	Part No.	Description			
C462	1-162-286-31	CERAMIC 220PF	10%	50V	
C463	1-130-482-00	MYLAR 0.0082MF	5%	50V	
C464	1-130-479-00	MYLAR 0.0047MF	5%	50V	
C465	1-162-290-31	CERAMIC 470PF	10%	50V	
C466	1-124-927-11	ELECT 4.7MF	20%	50V	
C467	1-161-379-00	CERAMIC 0.01MF	20%	16V	
C468	1-136-161-00	FILM 0.047MF	5%	50V	
C469	1-161-379-00	CERAMIC 0.01MF	20%	16V	
C470	1-123-875-11	ELECT 10MF	20%	50V	
C471	1-136-165-00	FILM 0.1MF	5%	50V	
C472	1-136-171-00	FILM 0.33MF	5%	50V	
C473	1-162-290-31	CERAMIC 470PF	10%	50V	
C474	1-130-479-00	MYLAR 0.0047MF	5%	50V	
C475	1-162-211-31	CERAMIC 33PF	5%	50V	
C476	1-130-480-00	MYLAR 0.0056MF	5%	50V	
C477	1-136-158-00	FILM 0.027MF	5%	50V	
C478	1-136-161-00	FILM 0.047MF	5%	50V	
C479	1-130-482-00	MYLAR 0.0082MF	5%	50V	
C480	1-161-379-00	CERAMIC 0.01MF	20%	16V	
C500	1-124-927-11	ELECT 4.7MF	20%	50V	
C501	1-162-292-31	CERAMIC 680PF	10%	50V	
C502	1-124-446-11	ELECT 47MF	20%	10V	
C503	1-161-959-00	CERAMIC 22PF	10%	500V	
C504	1-124-446-11	ELECT 47MF	20%	10V	
C505	1-162-193-31	CERAMIC 3.3PF	10%	50V	
C506	1-161-959-00	CERAMIC 22PF	10%	500V	
C507	1-124-446-11	ELECT 47MF	20%	10V	
C508	1-136-159-00	(US)...FILM 0.033MF	5%	50V	
C508	1-136-163-00	(Canadian,AEP,UK,E,WG)			
		...FILM 0.068MF	5%	50V	
C509	1-136-163-00	(Canadian,AEP,UK,E,WG)			
		...FILM 0.068MF	5%	50V	
C510	1-136-153-00	(WG)...FILM 0.01MF	5%	50V	
C510A	1-162-596-00	(WG)...CERAMIC 0.022MF		25V	
C511	1-136-153-00	(WG)...FILM 0.01MF	5%	50V	
C600	1-124-927-11	ELECT 4.7MF	20%	50V	
C601	1-162-292-31	CERAMIC 680PF	10%	50V	
C602	1-124-446-11	ELECT 47MF	20%	10V	
C603	1-161-959-00	CERAMIC 22PF	10%	500V	
C604	1-124-446-11	ELECT 47MF	20%	10V	
C605	1-162-193-31	CERAMIC 3.3PF	10%	50V	
C606	1-161-959-00	CERAMIC 22PF	10%	500V	
C607	1-124-446-11	ELECT 47MF	20%	10V	
C608	1-136-159-00	(US)...FILM 0.033MF	5%	50V	
C608	1-136-163-00	(Canadian,AEP,UK,E,WG)			
		...FILM 0.068MF	5%	50V	
C609	1-136-163-00	(Canadian,AEP,UK,E,WG)			
		...FILM 0.068MF	5%	50V	
C610	1-136-153-00	(WG)...FILM 0.01MF	5%	50V	
C610A	1-162-596-00	(WG)...CERAMIC 0.022MF		25V	
C611	1-136-153-00	(WG)...FILM 0.01MF	5%	50V	
C700	1-124-927-11	ELECT 4.7MF	20%	50V	
C701	1-136-161-00	FILM 0.047MF	5%	50V	
C702	1-124-927-11	ELECT 4.7MF	20%	50V	
C703	1-124-446-11	ELECT 47MF	20%	10V	
C704	1-162-199-31	CERAMIC 10PF	5%	50V	

Ref.No.	Part No.	Description	
C705	1-126-407-51	ELECT	470MF
C706	1-123-875-11	ELECT	10MF
C707	1-124-446-11	ELECT	47MF
C708	1-126-101-11	ELECT	100MF
C709	1-124-917-11	ELECT	33MF
C710	1-124-478-11	ELECT	100MF
C711	1-136-159-00	(US)...FILM	0.033MF
C711	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF
C712	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF
C750	1-161-494-00	CERAMIC	0.022MF
C751	1-124-446-11	ELECT	47MF
C752	1-124-443-00	ELECT	100MF
C753	1-123-875-11	ELECT	10MF
C754	1-124-477-11	ELECT	47MF
C755	1-136-153-00	(WG)...FILM	0.01MF
C801	1-125-416-11	(AEP,UK,WG)...ELECT	
C801	1-125-522-11	(US,Canadian,E) ...ELECT	
C802	1-125-416-11	(AEP,UK,WG)...ELECT	
C802	1-125-522-11	(US,Canadian,E) ...ELECT	
C804	1-124-618-11	ELECT	2200MF
C805	1-124-618-11	ELECT	2200MF
C807	1-124-360-00	ELECT	1000MF
C808	1-124-119-00	ELECT	330MF
C809	1-123-875-11	ELECT	10MF
C810	1-123-875-11	ELECT	10MF
C811	1-123-875-11	ELECT	10MF
C812	1-124-446-11	ELECT	47MF
C813	1-124-446-11	ELECT	47MF
C815	1-124-480-11	ELECT	470MF
C816	1-123-875-11	ELECT	10MF
C817	1-123-875-11	ELECT	10MF
C818	1-123-875-11	(E)...ELECT	10MF
C819	1-161-494-00	CERAMIC	0.022MF
C900	1-136-153-00	FILM	0.01MF
C901	1-162-282-31	CERAMIC	100PF
C902	1-162-282-31	CERAMIC	100PF
C903	1-124-893-11	ELECT	2200MF
C904	1-124-927-11	ELECT	4.7MF
C905	1-124-463-00	ELECT	0.1MF
C906	1-124-499-11	ELECT	1MF
C907	1-124-925-11	ELECT	2.2MF
C908	1-124-925-11	ELECT	2.2MF
C909	1-130-471-00	MYLAR	0.001MF
C910	1-161-379-00	CERAMIC	0.01MF
C911	1-161-379-00	CERAMIC	0.01MF
C912	1-161-379-00	CERAMIC	0.01MF
C913	1-124-443-00	ELECT	100MF
C914	1-161-494-00	CERAMIC	0.022MF
CNJ1	A,1-526-794-11	(AEP,WG).....OU	
CNJ1	A,1-526-751-11	(UK).....OU	
CNJ1	A,1-540-012-11	(US,Canadian,E).....OU	

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
Ref.No.	Part No.	Description				
C202	1-123-875-11	ELECT	10MF	20%	50V	
C203	1-162-284-31	CERAMIC	150PF	10%	50V	
C205	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C206	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C207	1-124-902-00	ELECT	0.47MF	20%	50V	
C208	1-124-446-11	ELECT	47MF	20%	10V	
C209	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C210	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C211	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C212	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C213	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C214	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C215	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C216	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C217	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C218	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C219	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C220	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	
C300	1-124-927-11	ELECT	4.7MF	20%	50V	
C302	1-124-927-11	ELECT	4.7MF	20%	50V	
C304	1-123-875-11	ELECT	10MF	20%	50V	
C306	1-162-211-31	CERAMIC	33PF	5%	50V	
C307	1-124-927-11	ELECT	4.7MF	20%	50V	
C308	1-124-927-11	ELECT	4.7MF	20%	50V	
C309	1-162-211-31	CERAMIC	33PF	5%	50V	
C310	1-124-446-11	ELECT	47MF	20%	10V	
C311	1-162-217-31	CERAMIC	56PF	5%	50V	
C312	1-124-927-11	ELECT	4.7MF	20%	50V	
C313	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C314	1-136-157-00	FILM	0.022MF	5%	50V	
C315	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C316	1-136-163-00	FILM	0.068MF	5%	50V	
C317	1-123-875-11	ELECT	10MF	20%	50V	
C400	1-124-927-11	ELECT	4.7MF	20%	50V	
C403	1-124-927-11	ELECT	4.7MF	20%	50V	
C404	1-123-875-11	ELECT	10MF	20%	50V	
C406	1-162-211-31	CERAMIC	33PF	5%	50V	
C407	1-124-927-11	ELECT	4.7MF	20%	50V	
C408	1-124-927-11	ELECT	4.7MF	20%	50V	
C409	1-162-211-31	CERAMIC	33PF	5%	50V	
C410	1-124-446-11	ELECT	47MF	20%	10V	
C411	1-162-217-31	CERAMIC	56PF	5%	50V	
C412	1-124-927-11	ELECT	4.7MF	20%	50V	
C413	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C414	1-136-157-00	FILM	0.022MF	5%	50V	
C415	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C416	1-136-163-00	FILM	0.068MF	5%	50V	
C417	1-123-875-11	ELECT	10MF	20%	50V	
C450	1-162-282-31	CERAMIC	100PF	10%	50V	
C452	1-162-282-31	CERAMIC	100PF	10%	50V	
C453	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C454	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C455	1-162-290-31	CERAMIC	470PF	10%	50V	
C458	1-124-472-11	ELECT	470MF	20%	10V	
C459	1-124-472-11	ELECT	470MF	20%	10V	
C460	1-124-927-11	ELECT	4.7MF	20%	50V	
C461	1-162-283-31	CERAMIC	120PF	10%	50V	


Ref.No.	Part No.	Description				
C462	1-162-286-31	CERAMIC	220PF	10%	50V	
C463	1-130-482-00	MYLAR	0.0082MF	5%	50V	
C464	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C465	1-162-290-31	CERAMIC	470PF	10%	50V	
C466	1-124-927-11	ELECT	4.7MF	20%	50V	
C467	1-161-379-00	CERAMIC	0.01MF	20%	16V	
C468	1-136-161-00	FILM	0.047MF	5%	50V	
C469	1-161-379-00	CERAMIC	0.01MF	20%	16V	
C470	1-123-875-11	ELECT	10MF	20%	50V	
C471	1-136-165-00	FILM	0.1MF	5%	50V	
C472	1-136-171-00	FILM	0.33MF	5%	50V	
C473	1-162-290-31	CERAMIC	470PF	10%	50V	
C474	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C475	1-162-211-31	CERAMIC	33PF	5%	50V	
C476	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C477	1-136-158-00	FILM	0.027MF	5%	50V	
C478	1-136-161-00	FILM	0.047MF	5%	50V	
C479	1-130-482-00	MYLAR	0.0082MF	5%	50V	
C480	1-161-379-00	CERAMIC	0.01MF	20%	16V	
C500	1-124-927-11	ELECT	4.7MF	20%	50V	
C501	1-162-292-31	CERAMIC	680PF	10%	50V	
C502	1-124-446-11	ELECT	47MF	20%	10V	
C503	1-161-959-00	CERAMIC	22PF	10%	500V	
C504	1-124-446-11	ELECT	47MF	20%	10V	
C505	1-162-193-31	CERAMIC	3.3PF	10%	50V	
C506	1-161-959-00	CERAMIC	22PF	10%	500V	
C507	1-124-446-11	ELECT	47MF	20%	10V	
C508	1-136-159-00	(US)...FILM	0.033MF	5%	50V	
C508	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	
C509	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	
C510	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	
C510A	1-162-596-00	(WG)...CERAMIC	0.022MF		25V	
C511	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	
C600	1-124-927-11	ELECT	4.7MF	20%	50V	
C601	1-162-292-31	CERAMIC	680PF	10%	50V	
C602	1-124-446-11	ELECT	47MF	20%	10V	
C603	1-161-959-00	CERAMIC	22PF	10%	500V	
C604	1-124-446-11	ELECT	47MF	20%	10V	
C605	1-162-193-31	CERAMIC	3.3PF	10%	50V	
C606	1-161-959-00	CERAMIC	22PF	10%	500V	
C607	1-124-446-11	ELECT	47MF	20%	10V	
C608	1-136-159-00	(US)...FILM	0.033MF	5%	50V	
C608	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	
C609	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	
C610	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	
C610A	1-162-596-00	(WG)...CERAMIC	0.022MF		25V	
C611	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	
C700	1-124-927-11	ELECT	4.7MF	20%	50V	
C701	1-136-161-00	FILM	0.047MF	5%	50V	
C702	1-124-927-11	ELECT	4.7MF	20%	50V	
C703	1-124-446-11	ELECT	47MF	20%	10V	
C704	1-162-199-31	CERAMIC	10PF	5%	50V	

Ref.No.	Part No.	Description				
C705	1-126-407-51	ELECT	470MF	20%	25V	
C706	1-123-875-11	ELECT	10MF	20%	50V	
C707	1-124-446-11	ELECT	47MF	20%	10V	
C708	1-126-101-11	ELECT	100MF	20%	16V	
C709	1-124-917-11	ELECT	33MF	20%	50V	
C710	1-124-478-11	ELECT	100MF	20%	25V	
C711	1-136-159-00	(US)...FILM	0.033MF	5%	50V	
C711	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	
C712	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	
C750	1-161-494-00	CERAMIC	0.022MF		25V	
C751	1-124-446-11	ELECT	47MF	20%	10V	
C752	1-124-443-00	ELECT	100MF	20%	6.3V	
C753	1-123-875-11	ELECT	10MF	20%	50V	
C754	1-124-477-11	ELECT	47MF	20%	16V	
C755	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	
C801	1-125-416-11	(AEP,UK,WG)...ELECT	10000MF	20%	63V	
C801	1-125-522-11	(US,Canadian,E) ...ELECT	12000MF	20%	71V	
C802	1-125-416-11	(AEP,UK,WG)...ELECT	10000MF	20%	63V	
C802	1-125-522-11	(US,Canadian,E) ...ELECT	12000MF	20%	71V	
C804	1-124-618-11	ELECT	2200MF	20%	35V	
C805	1-124-618-11	ELECT	2200MF	20%	35V	
C807	1-124-360-00	ELECT	1000MF	20%	16V	
C808	1-124-119-00	ELECT	330MF	20%	16V	
C809	1-123-875-11	ELECT	10MF	20%	50V	
C810	1-123-875-11	ELECT	10MF	20%	50V	
C811	1-123-875-11	ELECT	10MF	20%	50V	
C812	1-124-446-11	ELECT	47MF	20%	10V	
C813	1-124-446-11	ELECT	47MF	20%	10V	
C815	1-124-480-11	ELECT	470MF	20%	25V	
C816	1-123-875-11	ELECT	10MF	20%	50V	
C817	1-123-875-11	ELECT	10MF	20%	50V	
C818	1-123-875-11	(E)...ELECT	10MF	20%	50V	
C819	1-161-494-00	CERAMIC	0.022MF		25V	
C900	1-136-153-00	FILM	0.01MF	5%	50V	
C901	1-162-282-31	CERAMIC	100PF	10%	50V	
C902	1-162-282-31	CERAMIC	100PF	10%	50V	
C903	1-124-893-11	ELECT	2200MF	20%	10V	
C904	1-124-927-11	ELECT	4.7MF	20%	50V	
C905	1-124-463-00	ELECT	0.1MF	20%	50V	
C906	1-124-499-11	ELECT	1MF	20%	50V	
C907	1-124-925-11	ELECT	2.2MF	20%	50V	
C908	1-124-925-11	ELECT	2.2MF	20%	50V	
C909	1-130-471-00	MYLAR	0.001MF	5%	50V	
C910	1-161-379-00	CERAMIC	0.01MF	20%	16V	
C911	1-161-379-00	CERAMIC	0.01MF	20%	16V	
C912	1-161-379-00	CERAMIC	0.01MF	20%	16V	
C913	1-124-443-00	ELECT	100MF	20%	6.3V	
C914	1-161-494-00	CERAMIC	0.022MF	30%	25V	
CN31	△ 1-526-794-11	(AEP,WG).....OUTLET, AC				
CN31	△ 1-526-751-11	(UK).....OUTLET, AC				
CN31	△ 1-540-012-11	(US,Canadian,E)....OUTLET, AC				

Ref.No.	Part No.	Description
D911	8-719-301-38	DIODE SEL2210S-C (CD)
D912	8-719-301-38	DIODE SEL2210S-C (TUNER)
D913	8-719-301-38	DIODE SEL2210S-C (PHONO)
D914	8-719-000-26	DIODE US1060M
D915	8-719-000-26	DIODE US1060M
D916	8-719-000-26	DIODE US1060M
D917	8-719-000-51	DIODE UZL-6L2
D918	8-719-000-26	DIODE US1060M
D919	8-719-301-60	DIODE SEL2910A-C (MUTING)
D920	8-719-000-26	DIODE US1060M
D921	8-719-000-26	DIODE US1060M
D922	8-719-000-26	DIODE US1060M
D923	8-719-310-03	DIODE SEL4925A-C (DOLBY)
D924	8-719-310-03	DIODE SEL4925A-C (HOALL)
D925	8-719-310-03	DIODE SEL4925A-C (SIMULATED)
D929	8-719-000-26	DIODE US1060M
D930	8-719-000-26	(Canadian,AEP,UK,E,WG)...DIODE US1060M
D931	8-719-000-26	DIODE US1060M
F1	△1-532-237-00	(AEP,UK,E,WG)...FUSE, TIME-LAG (3.15A)
F1	△1-532-748-00	(US,Canadian)...FUSE (6.3A)
F2	△1-532-237-00	(E).....FUSE, TIME-LAG (3.15A)
F2	△1-532-286-00	(AEP,UK,WG).....FUSE, TIME-LAG (2.15A)
IC50	8-759-240-52	(US,Canadian,E)...IC M4052BP
IC51	8-759-240-52	IC M4052BP
IC100	8-759-600-02	IC M5218L
IC101	8-759-805-14	IC LC7822
IC102	8-759-601-43	IC M4066BP
IC202	8-759-601-43	IC M4066BP
IC300	8-759-601-43	IC M4066BP
IC301	8-759-600-02	IC M5218L
IC302	8-759-600-02	IC M5218L
IC303	8-759-600-02	IC M5218L
IC450	8-759-600-02	IC M5218L
IC451	8-759-600-02	IC M5218L
IC452	8-759-403-66	IC MN3007
IC453	8-759-400-11	IC MN3101
IC454	8-759-600-02	IC M5218L
IC455	8-759-929-37	IC NE646N
IC700	8-749-920-29	IC STK-4026
IC701	8-759-111-68	IC UPC1237HA
IC800	8-759-604-49	IC M5F7909
IC801	8-759-604-31	IC M5F7809
IC802	8-759-604-49	IC M5F7909
IC803	8-759-604-33	(E)...IC M5F7812
IC900	8-759-630-57	IC M50720-401SP
IC901	8-749-901-49	IC SBX1492-51
J50	1-563-136-31	JACK, PIN 3P
J51	1-565-351-21	JACK, PIN 3P
J52	1-565-351-21	JACK, PIN 3P
J53	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 3 IN)
J54	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 2 OUT)
J55	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 2 IN)
J56	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 1 OUT)
J57	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 1 IN)
J58	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (MONITOR OUT)

Ref.No.	Part No.	Description
J100	1-565-320-11	JACK, PIN 6P
J101	1-565-320-11	JACK, PIN 6P
J102	1-565-320-11	JACK, PIN 6P
J103	1-565-320-11	JACK, PIN 6P
J500	1-507-932-11	JACK (HEADPHONES)
L500	*1-420-872-00	COIL, AIR CORE (1.9 UH)
L600	*1-420-872-00	COIL, AIR CORE (1.9 UH)
L700	*1-420-872-00	COIL, AIR CORE (1.9 UH)
L800	1-408-080-00	INDUCTOR 100UH
Q50	8-729-117-54	TRANSISTOR 2SA1175
Q51	8-729-117-54	TRANSISTOR 2SA1175
Q52	8-729-117-54	TRANSISTOR 2SA1175
Q53	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
Q54	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
Q55	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
Q56	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
Q57	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
Q58	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
Q500	8-729-107-99	TRANSISTOR 2SC3622A
Q501	8-729-697-92	TRANSISTOR 2SA979-G
Q502	8-729-108-14	TRANSISTOR 2SA988-F
Q503	8-729-178-54	TRANSISTOR 2SC2785
Q504	8-729-178-54	TRANSISTOR 2SC2785
Q505	8-729-104-91	TRANSISTOR 2SA1383
Q506	8-729-107-25	TRANSISTOR 2SD1585
Q507	8-729-104-18	TRANSISTOR 2SC3514
Q508	8-729-178-54	TRANSISTOR 2SC2785
Q509	8-729-117-54	TRANSISTOR 2SA1175
Q510	8-729-107-53	TRANSISTOR 2SC2275A-P
Q511	8-729-190-53	TRANSISTOR 2SA985A-P
Q512	8-729-300-22	(US,Canadian,E)...TRANSISTOR 2SA1215
Q512	8-729-304-29	(AEP,UK,WG).....TRANSISTOR 2SA1491
Q513	8-729-300-36	(US,Canadian,E)...TRANSISTOR 2SC2921
Q513	8-729-304-32	(AEP,UK,WG).....TRANSISTOR 2SC3855
Q514	8-729-108-06	TRANSISTOR 2SC1841
Q600	8-729-107-99	TRANSISTOR 2SC3622A
Q601	8-729-697-92	TRANSISTOR 2SA979-G
Q602	8-729-108-14	TRANSISTOR 2SA988-F
Q603	8-729-178-54	TRANSISTOR 2SC2785
Q604	8-729-178-54	TRANSISTOR 2SC2785
Q605	8-729-104-91	TRANSISTOR 2SA1383
Q606	8-729-107-25	TRANSISTOR 2SD1585
Q607	8-729-104-18	TRANSISTOR 2SC3514
Q608	8-729-178-54	TRANSISTOR 2SC2785
Q609	8-729-117-54	TRANSISTOR 2SA1175
Q610	8-729-107-53	TRANSISTOR 2SC2275A-P
Q611	8-729-190-53	TRANSISTOR 2SA985A-P
Q612	8-729-300-22	(US,Canadian,E)...TRANSISTOR 2SA1215
Q612	8-729-304-29	(AEP,UK,WG).....TRANSISTOR 2SA1491
Q613	8-729-300-36	(US,Canadian,E)...TRANSISTOR 2SC2921
Q613	8-729-304-32	(AEP,UK,WG).....TRANSISTOR 2SC3855
Q614	8-729-108-06	TRANSISTOR 2SC1841
Q700	8-729-107-99	TRANSISTOR 2SC3622A-K
Q701	8-729-900-61	TRANSISTOR DTA114ES
Q702	8-729-900-63	TRANSISTOR DTA124ES
Q703	8-729-117-54	TRANSISTOR 2SA1175
Q704	8-729-117-54	TRANSISTOR 2SA1175

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
Q705	8-729-117-54	TRANSISTOR 2SA1175
Q800	8-729-178-54	TRANSISTOR 2SC2785
Q801	8-729-117-54	TRANSISTOR 2SA1175
Q802	8-729-801-93	TRANSISTOR 2SD1387
Q900	8-729-900-36	TRANSISTOR DTC124ES
Q901	8-729-900-63	TRANSISTOR DTA124ES
Q902	8-729-900-36	TRANSISTOR DTC124ES
Q903	8-729-900-63	TRANSISTOR DTA124ES
Q904	8-729-900-36	TRANSISTOR DTC124ES
Q905	8-729-900-63	TRANSISTOR DTA124ES
Q906	8-729-900-36	TRANSISTOR DTC124ES
Q907	8-729-900-36	TRANSISTOR DTC124ES
Q908	8-729-900-36	TRANSISTOR DTC124ES
Q909	8-729-900-36	TRANSISTOR DTC124ES
Q910	8-729-900-63	TRANSISTOR DTA124ES
Q911	8-729-900-63	TRANSISTOR DTA124ES
Q912	8-729-900-63	TRANSISTOR DTA124ES
Q913	8-729-900-63	TRANSISTOR DTA124ES
Q914	8-729-900-63	TRANSISTOR DTA124ES
Q915	8-729-900-63	TRANSISTOR DTA124ES
Q916	8-729-900-36	TRANSISTOR DTC124ES
Q917	8-729-900-63	TRANSISTOR DTA124ES
Q918	8-729-802-22	TRANSISTOR 2SB1014
Q919	8-729-802-34	TRANSISTOR 2SD1388
Q920	8-729-900-63	TRANSISTOR DTA124ES
Q921	8-729-117-54	TRANSISTOR 2SA1175
Q922	8-729-117-54	TRANSISTOR 2SA1175
Q923	8-729-900-63	TRANSISTOR DTA124ES
Q924	8-729-900-63	TRANSISTOR DTA124ES
Q925	8-729-900-63	TRANSISTOR DTA124ES
Q926	8-729-900-63	TRANSISTOR DTA124ES
Q927	8-729-178-54	TRANSISTOR 2SC2785
Q928	8-729-178-54	TRANSISTOR 2SC2785
Q929	8-729-900-36	TRANSISTOR DTC124ES
Q930	8-729-900-63	TRANSISTOR DTA124ES
Q931	8-729-178-54	TRANSISTOR 2SC2785
Q998	8-729-900-36	TRANSISTOR DTC124ES
Q999	8-729-900-63	TRANSISTOR DTA124ES
R41	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W
R42	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W
R43	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W
R44	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W
R45	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W
R46	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W
R47	1-249-405-11	CARBON 100 5% 1/4W
R48	1-249-405-11	CARBON 100 5% 1/4W
R49	1-249-405-11	CARBON 100 5% 1/4W
R50	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R51	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R52	1-247-804-11	CARBON 75 5% 1/4W
R53	1-247-804-11	CARBON 75 5% 1/4W
R54	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R55	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R56	1-247-804-11	CARBON 75 5% 1/4W
R57	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R58	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W

Ref.No.	Part No.	Description
R59	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R60	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
R61	1-247-895-00	CARBON 470K 5% 1/4W
R62	1-249-433-11	CARBON 22K 5% 1/4W
R63	1-249-433-11	CARBON 22K 5% 1/4W
R64	1-247-881-00	CARBON 120K 5% 1/4W
R65	1-249-433-11	CARBON 22K 5% 1/4W
R66	1-249-438-11	CARBON 56K 5% 1/4W
R67	1-249-408-11	CARBON 180 5% 1/4W
R68	1-247-881-00	CARBON 120K 5% 1/4W
R69	1-249-438-11	CARBON 56K 5% 1/4W
R70	1-249-433-11	CARBON 22K 5% 1/4W
R71	1-249-408-11	CARBON 180 5% 1/4W
R72	1-247-881-00	CARBON 120K 5% 1/4W
R73	1-249-438-11	CARBON 56K 5% 1/4W
R74	1-249-408-11	CARBON 180 5% 1/4W
R75	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
R76	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
R77	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
R78	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R79	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
R80	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
R81	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
R82	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R83	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
R84	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
R85	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R86	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
R87	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
R88	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
R89	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R90	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
R91	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
R92	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
R93	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R94	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
R95	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
R96	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R97	1-247-895-00	(US,Canadian,E)...CARBON 470K 5% 1/4W
R98	1-247-895-00	(US,Canadian,E)...CARBON 470K 5% 1/4W
R100	1-249-418-11	(WG)...CARBON 1.2K 5% 1/4W
R101	1-249-441-11	CARBON 100K 5% 1/4W
R102	1-249-411-11	(US,Canadian,AEP,UK,E) ...CARBON 330 5% 1/4W
R102	1-249-413-11	(WG)...CARBON 470 5% 1/4W
R103	1-249-416-11	CARBON 820 5% 1/4W
R104	1-249-441-11	CARBON 100K 5% 1/4W
R105	1-247-897-11	CARBON 560K 5% 1/4W
R106	1-249-437-11	CARBON 47K 5% 1/4W
R107	1-249-441-11	CARBON 100K 5% 1/4W
R108	1-249-409-11	CARBON 220 5% 1/4W
R109	1-249-418-11	CARBON 1.2K 5% 1/4W
R110	1-249-418-11	CARBON 1.2K 5% 1/4W
R111	1-249-413-11	CARBON 470 5% 1/4W
R112	1-249-418-11	CARBON 1.2K 5% 1/4W
R113	1-249-418-11	CARBON 1.2K 5% 1/4W
R114	1-249-418-11	CARBON 1.2K 5% 1/4W

Ref.No.	Part No.	Description				
R115	1-249-413-11	CARBON	470	5%	1/4W	
R116	1-249-418-11	CARBON	1.2K	5%	1/4W	
R117	1-249-413-11	CARBON	470	5%	1/4W	
R118	1-249-418-11	CARBON	1.2K	5%	1/4W	
R119	1-249-413-11	CARBON	470	5%	1/4W	
R120	1-249-418-11	CARBON	1.2K	5%	1/4W	
R121	1-249-429-11	CARBON	10K	5%	1/4W	
R122	1-249-433-11	CARBON	22K	5%	1/4W	
R123	1-249-433-11	CARBON	22K	5%	1/4W	
R124	1-249-433-11	CARBON	22K	5%	1/4W	
R200	1-249-418-11	(WG)...CARBON	1.2K	5%	1/4W	
R201	1-249-441-11	CARBON	100K	5%	1/4W	
R202	1-249-411-11	(US, Canadian, AEP, UK, E)				
R202	1-249-413-11	(WG)...CARBON	330	5%	1/4W	
R202	1-249-413-11	(WG)...CARBON	470	5%	1/4W	
R203	1-249-441-11	CARBON	100K	5%	1/4W	
R204	1-249-416-11	CARBON	820	5%	1/4W	
R205	1-247-897-11	CARBON	560K	5%	1/4W	
R206	1-249-437-11	CARBON	47K	5%	1/4W	
R207	1-249-441-11	CARBON	100K	5%	1/4W	
R208	1-249-409-11	CARBON	220	5%	1/4W	
R209	1-249-418-11	CARBON	1.2K	5%	1/4W	
R210	1-249-418-11	CARBON	1.2K	5%	1/4W	
R211	1-249-413-11	CARBON	470	5%	1/4W	
R212	1-249-418-11	CARBON	1.2K	5%	1/4W	
R213	1-249-418-11	CARBON	1.2K	5%	1/4W	
R214	1-249-418-11	CARBON	1.2K	5%	1/4W	
R215	1-249-413-11	CARBON	470	5%	1/4W	
R216	1-249-418-11	CARBON	1.2K	5%	1/4W	
R217	1-249-413-11	CARBON	470	5%	1/4W	
R218	1-249-418-11	CARBON	1.2K	5%	1/4W	
R219	1-249-413-11	CARBON	470	5%	1/4W	
R220	1-249-418-11	CARBON	1.2K	5%	1/4W	
R300	1-249-417-11	CARBON	1K	5%	1/4W	
R301	1-249-438-11	CARBON	56K	5%	1/4W	
R302	1-249-441-11	CARBON	100K	5%	1/4W	
R303	1-249-429-11	CARBON	10K	5%	1/4W	
R304	1-249-429-11	CARBON	10K	5%	1/4W	
R307	1-247-887-00	CARBON	220K	5%	1/4W	
R308	1-249-429-11	CARBON	10K	5%	1/4W	
R309	1-249-429-11	CARBON	10K	5%	1/4W	
R310	1-249-417-11	CARBON	1K	5%	1/4W	
R311	1-249-441-11	CARBON	100K	5%	1/4W	
R312	1-249-430-11	CARBON	12K	5%	1/4W	
R313	1-247-887-00	CARBON	220K	5%	1/4W	
R314	1-249-427-11	CARBON	6.8K	5%	1/4W	
R315	1-249-415-11	CARBON	680	5%	1/4W	
R316	1-249-434-11	CARBON	27K	5%	1/4W	
R317	1-249-422-11	CARBON	2.7K	5%	1/4W	
R318	1-249-417-11	CARBON	1K	5%	1/4W	
R400	1-249-417-11	CARBON	1K	5%	1/4W	
R401	1-249-438-11	CARBON	56K	5%	1/4W	
R402	1-249-441-11	CARBON	100K	5%	1/4W	
R403	1-249-429-11	CARBON	10K	5%	1/4W	
R404	1-249-429-11	CARBON	10K	5%	1/4W	
R405	1-249-429-11	CARBON	10K	5%	1/4W	
R406	1-249-429-11	CARBON	10K	5%	1/4W	

Ref.No.	Part No.	Description				
R407	1-247-887-00	CARBON	220K	5%	1/4W	
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-429-11	CARBON	10K	5%	1/4W	
R410	1-249-417-11	CARBON	1K	5%	1/4W	
R411	1-249-441-11	CARBON	100K	5%	1/4W	
R412	1-249-430-11	CARBON	12K	5%	1/4W	
R413	1-247-887-00	CARBON	220K	5%	1/4W	
R414	1-249-427-11	CARBON	6.8K	5%	1/4W	
R415	1-249-415-11	CARBON	680	5%	1/4W	
R416	1-249-434-11	CARBON	27K	5%	1/4W	
R417	1-249-422-11	CARBON	2.7K	5%	1/4W	
R418	1-249-417-11	CARBON	1K	5%	1/4W	
R450	1-249-441-11	CARBON	100K	5%	1/4W	
R451	1-249-441-11	CARBON	100K	5%	1/4W	
R452	1-249-428-11	CARBON	8.2K	5%	1/4W	
R453	1-249-428-11	CARBON	8.2K	5%	1/4W	
R454	1-249-431-11	CARBON	15K	5%	1/4W	
R455	1-249-428-11	CARBON	8.2K	5%	1/4W	
R456	1-249-405-11	CARBON	100	5%	1/4W	
R457	1-249-413-11	CARBON	470	5%	1/4W	
R458	1-249-413-11	CARBON	470	5%	1/4W	
R459	1-249-441-11	CARBON	100K	5%	1/4W	
R460	1-249-441-11	CARBON	100K	5%	1/4W	
R461	1-249-426-11	CARBON	5.6K	5%	1/4W	
R462	1-249-426-11	CARBON	5.6K	5%	1/4W	
R463	1-249-437-11	CARBON	47K	5%	1/4W	
R464	1-249-440-11	CARBON	82K	5%	1/4W	
R465	1-249-414-11	CARBON	560	5%	1/4W	
R466	1-247-887-00	CARBON	220K	5%	1/4W	
R467	1-249-428-11	CARBON	8.2K	5%	1/4W	
R468	1-249-428-11	CARBON	8.2K	5%	1/4W	
R469	1-249-431-11	CARBON	15K	5%	1/4W	
R470	1-249-428-11	CARBON	8.2K	5%	1/4W	
R471	1-249-429-11	CARBON	10K	5%	1/4W	
R472	1-249-427-11	CARBON	6.8K	5%	1/4W	
R473	1-247-889-00	CARBON	270K	5%	1/4W	
R474	1-247-885-00	CARBON	180K	5%	1/4W	
R475	1-249-439-11	CARBON	68K	5%	1/4W	
R476	1-249-433-11	CARBON	22K	5%	1/4W	
R477	1-249-435-11	CARBON	33K	5%	1/4W	
R478	1-249-437-11	CARBON	47K	5%	1/4W	
R479	1-249-433-11	CARBON	22K	5%	1/4W	
R480	1-249-408-11	CARBON	180	5%	1/4W	
R481	1-249-423-11	CARBON	3.3K	5%	1/4W	
R482	1-249-405-11	CARBON	100	5%	1/4W	
R483	1-247-887-00	CARBON	220K	5%	1/4W	
R484	1-247-881-00	CARBON	120K	5%	1/4W	
R485	1-249-425-11	CARBON	4.7K	5%	1/4W	
R500	1-249-417-11	CARBON	1K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-437-11	CARBON	47K	5%	1/4W	
R503	1-249-423-11	CARBON	3.3K	5%	1/4W	
R504	1-249-411-11	CARBON	330	5%	1/4W	
R505	1-247-704-11	CARBON	220	5%	1/4W	
R506	1-247-704-11	CARBON	220	5%	1/4W	
R507	1-249-437-11	CARBON	47K	5%	1/4W	
R508	1-249-421-11	CARBON	2.2K	5%	1/4W	

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				
R509	1-247-692-11	CARBON	22	5%	1/4W	F
R510	1-249-429-11	CARBON	10K	5%	1/4W	
R511	1-249-435-11	CARBON	33K	5%	1/4W	
R512	1-249-433-11	CARBON	22K	5%	1/4W	
R513	1-249-435-11	CARBON	33K	5%	1/4W	
R514	1-249-419-11	CARBON	1.5K	5%	1/4W	
R515	1-249-414-11	CARBON	560	5%	1/4W	
R516	1-247-692-11	CARBON	22	5%	1/4W	F
R517	1-247-700-11	CARBON	100	5%	1/4W	F
R518	1-247-700-11	CARBON	100	5%	1/4W	F
R519	1-247-719-11	CARBON	3.3K	5%	1/4W	F
R520	1-247-713-11	CARBON	1K	5%	1/4W	F
R521	1-247-713-11	CARBON	1K	5%	1/4W	F
R522	1-247-717-11	CARBON	2.2K	5%	1/4W	F
R523	1-249-455-11	CARBON	4.7	5%	1/4W	F
R524	1-247-745-11	CARBON	330	5%	1/2W	F
R525	1-249-455-11	CARBON	4.7	5%	1/4W	F
R526	1-214-789-00	RES, METAL PLATE 0.1		5W		
R527	1-214-789-00	RES, METAL PLATE 0.1		5W		
R528	1-249-441-11	CARBON	100K	5%	1/4W	
R529	1-247-700-11	CARBON	100	5%	1/4W	F
R530	1-249-430-11	CARBON	12K	5%	1/4W	
R531	1-247-727-11	CARBON	10	5%	1/2W	
R532	1-247-727-11	CARBON	10	5%	1/2W	
R533	1-249-437-11	CARBON	47K	5%	1/4W	
R534	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R535	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R536	1-216-433-00	METAL OXIDE	1.2K	5%	1W	F
R600	1-249-417-11	CARBON	1K	5%	1/4W	
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R602	1-249-437-11	CARBON	47K	5%	1/4W	
R603	1-249-423-11	CARBON	3.3K	5%	1/4W	
R604	1-249-411-11	CARBON	330	5%	1/4W	
R605	1-247-704-11	CARBON	220	5%	1/4W	F
R606	1-247-704-11	CARBON	220	5%	1/4W	F
R607	1-249-437-11	CARBON	47K	5%	1/4W	
R608	1-249-421-11	CARBON	2.2K	5%	1/4W	
R609	1-247-692-11	CARBON	22	5%	1/4W	F
R610	1-249-429-11	CARBON	10K	5%	1/4W	
R611	1-249-435-11	CARBON	33K	5%	1/4W	
R612	1-249-433-11	CARBON	22K	5%	1/4W	
R613	1-249-435-11	CARBON	33K	5%	1/4W	
R614	1-249-419-11	CARBON	1.5K	5%	1/4W	
R615	1-249-414-11	CARBON	560	5%	1/4W	
R616	1-247-692-11	CARBON	22	5%	1/4W	F
R617	1-247-700-11	CARBON	100	5%	1/4W	F
R618	1-247-700-11	CARBON	100	5%	1/4W	F
R619	1-247-719-11	CARBON	3.3K	5%	1/4W	F
R620	1-247-713-11	CARBON	1K	5%	1/4W	F
R621	1-247-713-11	CARBON	1K	5%	1/4W	F
R622	1-247-717-11	CARBON	2.2K	5%	1/4W	F
R623	1-249-455-11	CARBON	4.7	5%	1/4W	F
R624	1-247-745-11	CARBON	330	5%	1/2W	F
R625	1-249-455-11	CARBON	4.7	5%	1/4W	F
R626	1-214-789-00	RES, METAL PLATE 0.1		5W		
R627	1-214-789-00	RES, METAL PLATE 0.1		5W		
R628	1-249-441-11	CARBON	100K	5%	1/4W (BIAS)	

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				
R629	A.1-247-700-11	CARBON	100	5%	1/4W	F
R630	1-249-430-11	CARBON	12K	5%	1/4W	
R631	1-247-727-11	CARBON	10	5%	1/2W	
R632	1-247-727-11	CARBON	10	5%	1/2W	
R633	1-249-438-11	CARBON	56K	5%	1/4W	
R634	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R635	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R636	A.1-216-433-00	METAL OXIDE	1.2K	5%	1W	F
R700	1-249-417-11	CARBON	1K	5%	1/4W	
R701	1-249-417-11	CARBON	1K	5%	1/4W	
R702	1-249-417-11	CARBON	1K	5%	1/4W	
R703	1-249-438-11	CARBON	56K	5%	1/4W	
R704	1-249-408-11	CARBON	180	5%	1/4W	
R705	1-249-438-11	CARBON	56K	5%	1/4W	
R706	1-249-423-11	CARBON	3.3K	5%	1/4W	
R707	1-249-421-11	CARBON	2.2K	5%	1/4W	
R708	1-247-727-11	CARBON	10	5%	1/2W	
R709	1-247-727-11	CARBON	10	5%	1/2W	
R710	1-249-421-11	CARBON	2.2K	5%	1/4W	
R727	1-249-417-11	CARBON	1K	5%	1/4W	
R750	1-249-429-11	CARBON	10K	5%	1/4W	
R751	1-249-441-11	CARBON	100K	5%	1/4W	
R752	1-249-429-11	CARBON	10K	5%	1/4W	
R753	1-249-438-11	CARBON	56K	5%	1/4W	
R754	1-249-433-11	CARBON	22K	5%	1/4W	
R755	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R756	1-249-433-11	CARBON	22K	5%	1/4W	
R758	1-249-421-11	CARBON	2.2K	5%	1/4W	
R759	1-249-421-11	CARBON	2.2K	5%	1/4W	
R760	1-249-405-11	CARBON	100	5%	1/4W	
R761	1-249-421-11	CARBON	2.2K	5%	1/4W	
R762	1-249-417-11	CARBON	1K	5%	1/4W	
R800	A.1-217-477-00	FUSIBLE	4.7	5%	1W	
R801	A.1-217-477-00	FUSIBLE	4.7	5%	1W	
R802	1-249-410-11	CARBON	270	5%	1/4W	
R803	1-249-421-11	CARBON	2.2K	5%	1/4W	
R804	1-249-421-11	CARBON	2.2K	5%	1/4W	
R805	1-249-410-11	CARBON	270	5%	1/4W	
R806	1-249-411-11	CARBON	330	5%	1/4W	
R807	1-249-425-11	CARBON	4.7K	5%	1/4W	
R808	1-249-408-11	CARBON	180	5%	1/4W	
R900	1-249-433-11	CARBON	22K	5%	1/4W	
R901	1-249-433-11	CARBON	22K	5%	1/4W	
R902	1-249-433-11	CARBON	22K	5%	1/4W	
R903	1-247-819-81	CARBON	330	5%	1/4W	
R904	1-249-412-11	CARBON	390	5%	1/4W	
R905	1-249-412-11	CARBON	390	5%	1/4W	
R906	1-249-433-11	CARBON	22K	5%	1/4W	
R907	1-249-433-11	CARBON	22K	5%	1/4W	
R908	1-249-433-11	CARBON	22K	5%	1/4W	
R909	1-249-433-11	CARBON	22K	5%	1/4W	
R910	1-249-433-11	CARBON	22K	5%	1/4W	
R911	1-249-433-11	CARBON	22K	5%	1/4W	
R912	1-249-433-11	CARBON	22K	5%	1/4W	
R913	1-249-433-11	CARBON	22K	5%	1/4W	
R914	1-247-903-00	CARBON	1M	5%	1/4W	
R916	1-249-441-11	CARBON	100K	5%	1/4W	



SECTION 6 TROUBLE SHOOTING


Ref.No.	Part No.	Description
R917	1-249-433-11	CARBON
R918	1-249-414-11	CARBON
R919	1-249-429-11	CARBON
R922	1-249-394-11	CARBON
R923	1-249-419-11	CARBON
R925	1-249-394-11	CARBON
R926	1-249-417-11	CARBON
R927	1-244-871-91	CARBON
R928	1-249-441-11	CARBON
R929	1-249-425-11	CARBON
R930	1-249-433-11	CARBON
R931	1-249-433-11	CARBON
R932	1-249-425-11	CARBON
R933	1-249-441-11	CARBON
R934	1-249-437-11	CARBON
R935	1-249-437-11	CARBON
R936	1-249-437-11	CARBON
R937	1-249-437-11	CARBON
R938	1-249-429-11	CARBON
R939	1-249-429-11	CARBON
R940	1-249-417-11	CARBON
R941	1-249-429-11	CARBON
R942	1-249-417-11	CARBON
R943	1-249-393-11	CARBON
R944	1-244-871-91	CARBON
R945	1-244-871-91	CARBON
R946	1-249-423-11	CARBON
R946A	1-249-425-11	CARBON
R947	1-249-441-11	CARBON
R949	1-249-433-11	CARBON
RV300	1-238-190-11	RES, VAR, CARBON 250K (BALANCE)
RV301	1-238-159-11	RES, VAR, CARBON (MOTOR)250KX3 (VOLUME)
RV302	1-238-156-11	RES, VAR, CARBON 250K/250K (BALANCE)
RV303	1-238-157-11	RES, VAR, CARBON 100K/100K (TREBLE)
RV304	1-238-157-11	RES, VAR, CARBON 100K/100K (BASS)
RV700	1-238-158-11	RES, VAR, CARBON 100K (SURROUND LEVEL)
RY700	1-515-356-00	RELAY (MUTING)
RY900	1-515-617-11	(AEP,UK,E,WG)...RELAY (POWER)
RY900	1-515-701-11	(US,Canadian)...RELAY (POWER)

Ref.No.	Part No.	Description
S1	A1-571-515-11	(E)...VOLTAGE SELECTOR
S500	1-570-270-11	SWITCH, PUSH (2 KEY)(SPEAKERS)
S900	1-554-303-21	SWITCH, KEY BOARD (VIDEO 1)
S901	1-554-303-21	SWITCH, KEY BOARD (VIDEO 2)
S902	1-554-303-21	SWITCH, KEY BOARD (VIDEO 3/CDV)
S903	1-554-303-21	SWITCH, KEY BOARD (VIDEO 4)
S904	1-554-303-21	SWITCH, KEY BOARD (TAPE/DAT)
S905	1-554-303-21	SWITCH, KEY BOARD (CD)
S906	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S907	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S908	1-571-436-11	SWITCH, KEY BOARD (SYSTEM POWER)
S909	1-554-303-21	SWITCH, KEY BOARD (MUTING)
S910	1-554-303-21	SWITCH, KEY BOARD (SUR OFF)
S911	1-554-303-21	SWITCH, KEY BOARD (DOLBY)
S912	1-554-303-21	SWITCH, KEY BOARD (HALL)
S913	1-554-303-21	SWITCH, KEY BOARD (SIMULATED)
T1	A1-449-265-11	(US,Canadian)...TRANSFORMER, POWER
T1	A1-449-300-11	(AEP,UK,WG).....TRANSFORMER, POWER
T1	A1-449-301-11	(E).....TRANSFORMER, POWER
T2	A1-449-296-11	(US,Canadian)...TRANSFORMER, POWER
T2	A1-449-297-11	(AEP,UK,WG).....TRANSFORMER, POWER
T2	A1-449-299-11	(E).....TRANSFORMER, POWER
TM500	1-536-706-00	TERMINAL BOARD (SP)
TM700	1-537-156-11	TERMINAL BOARD (SPEAKER)
TP1	*1-560-063-00	PIN, CONNECTOR 5P
X900	1-567-254-11	OSCILLATOR, CERAMIC (2MHz)

ACCESSORY & PACKING MATERIAL

1-463-983-11	REMOTE COMMANDER (RM-P102)
3-703-450-03	(US)...INSTRUCTION
3-786-058-11	(AEP,UK,E).....MANUAL, INSTRUCTION
3-786-058-21	(US,Canadian)...MANUAL, INSTRUCTION
3-786-058-31	(Canadian).....MANUAL, INSTRUCTION
3-786-058-41	(AEP,WG).....MANUAL, INSTRUCTION
4-922-048-01	COVER, BATTERY (REMOTE COMMANDER)
4-915-702-01	LABEL, CAUTION, DOLBY SURROUND
*4-921-346-01	CUSHION
*4-921-349-01	INDIVIDUAL CARTON

Note:
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before going through the check list below, first refer back to the connection and operating procedures.

Trouble		Possible Causes
Power cannot be turned on.		Check if the power cord is disconnected from the power outlet.
Audio	No audio.	• Check for faulty connection. • Check for short-circuited speaker terminals. • The shorting plug of the EQUALIZER jacks are disconnected. • Check that the connected equipment, such as a graphic equalizer, is turned on.
	No audio from one channel.	• Check if the BALANCE is set to an extreme position. • Check if the speaker cord or connection cord is disconnected.
	Distorted audio.	• Check if the audio volume setting is above the maximum permissible input of the speakers.
	Obscure instrument positioning, with lack of bass sound.	• Check if the positive (+) speaker terminal on the main body is not connected to the negative (-) terminal on the speaker, and vice versa.
	Hum or noise.	• Check that the grounding wire of the turntable is connected securely. • Check that the connection cords are inserted securely into jacks.
Video	No video.	• Check that the connections are correct. • Check that the correct FUNCTION is selected.
	Unclear video, low image quality.	• Check if there is any nearby source of noise.
Programmable Commander	Remote-control operation cannot be performed.	• Check that the batteries are loaded correctly. • Check if there is any obstacle between the programmable commander and amplifier. • Check if the batteries are exhausted. • Check if the mode selector is set to USER STD in remote-control operation using programmed signals.
	The remote-control signal cannot be programmed. The READY lamp does not lights.	• Place both remote commanders apart from the source of noise. • The batteries are exhausted.
	The LEARNED indicator blinks.	• The internal memory capacity is full.